OTISAMI A Practical Guide to the Art of Paper Folding

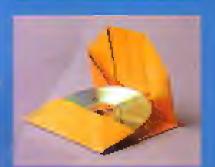












With color photographs and step-bystep illustrations and text, *The Origami Bible* will enable readers,
whatever their level of skill, to fold
almost any design, traditional or
contemporary. The emphasis is on
encouraging the reader to combine
and extend existing techniques to
produce new origami works. Author
Nick Robinson offers both practical
guidance and inspirational ideas,



Key to symbols Key to folds valley fold in rabbig's ear direction of **этом** mountaia feldi the paper behind outside reverse fold and unfold agein threave oxisting crease inoido raverse pleat the paper Inside pull the paper reverse 2 out to leave existing crease. petal fold pull out paper from inside hidden fold leaving x-ray tum the paper over view. from and back. rotate paper repeal arrow 180 degess in direction of rames. ratale gaper 90 degrees in direction of Minta (fold to center). arrows apply pressure told point to point fold with Teeling squash. fold scale ges algger



The Origami Bible





Origami Bible



Nick Robinson

With a short history by David Lister



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Foreword

minutes held within a simple square of paper soon become apparent when begin to fold it. Edges nearly march up with creases as the paper dances a concareless, yet perfect ballet. Patterns of folds, seemingly stolen from a Moorsh palace, enable the paper to collapse elegantly into a new geometric as recognizable animal, a near container or a simple toy that performs an expected movement.

McL Robinson preaches the gospel of this new world of origami, aided by collection of his own designs and a few by other notable folders. The prosity and friendship of origami cothusiasts everywhere demonstrate that his a universal language and tell us that the world of paper folding is prearkably small. At the same time, emerging ideas and concepts show us that the carriers boundless. The limitations imposed by the square that is neither more decorated nor glued, merely folded, often mean that the creator commons apparently insuperable problems with elegant and economic arions. Restriction stimulates richness.

If you find that you have been converted by origami, make a point of joining the of the many organizations devoted to the spread of its knowledge of the many organizations devoted to the spread of its knowledge of the expansion will expand the skill and knowledge repidly, and is the best way to learn and progress.

I wish you good luck on your origani pilgrimage!

__ + R-ill

THAT OF OF THE SHEETS A COSSSSUIT SOCIETY.



Introduction

ear is a Japanese word meaning paper to ding." For harry years engas i a traditional autorum paper fold at an as seen an unprecedented It is bounded divers a subject matter and the range of techniques. ne if e realive folder. This book presents a wide range of rual ng կու pretouvsky կորևի ished designs, garph ին բիրջջը չու rave but h techniques and concepts in organ). arepsilon are au and au and au are au and au and au are au and au are aution of designs. I dake readers to fee they can create their own designs. ஈ .n.eti tips and harts outh man infiltre designs so p . . . வடி (an of of a π_S rigam, as well as to ding it 4 firm vineheve that. one is born with a least, shouthat given the right environment it will at it may be that so it later than in realing origams, but it shar to my also ake to share with your or an illativour an have as part of the ie digam onamaint. There are not saids follows army, by dwho are happy to exchange diagrams and folds with you

 might be through the internet or by more eora, neads. I han made ma with any i itiends through origan and the r

hip is every by as important as the

== to we fourt





Fig. 15. The word original is an accepted part of a English and of many other languages. It is he imparates word for "name rolling" but paper is not the ordy material to have been folded. Just and leather are thought afternatives. Despite as additional earlies earlies of "paper" tolding we have as of an agreement map probably dathra from tellentate times and how and is solded just like a modern road map. From so the material plus is pre-entimently suitable for folding is hoper. We amnot processly date when paper was for folded to what appeared before paper because insely available in highert. The appeared before paper because insely available in highert.

It is popularly assumed that the Japanese livethed" paper folding in a despite many confident a sertions mobody one he sage, in fact the first people to fold haper may well have been be in these Paper was invented in clouds, and good haper statistic for writing, and his manable for folding, was trains, made by AD 100.

Knowledge all paper making was raken with buildhism from the rate. Notes and from the letter alpan, where is arrived around Ap) 650

ar stabs fourned how to Ittake paper from homest prisoners they cook in samurkage in Central Asia (0 AD 75). By 1006 papermaking reached Corriebs in accounts, Spain. It reached France in 1189. Germany at 1388, and England 490.

Performance of terreational paper folding in Suroge

nerone 2000 Perhaps surprisingly the same applicate appear where he instruments of recreations paper folding as opposed to determine paper tolding, does not appear an if other 1800.

was the skill ascovered in one continuously spiral arom there or was it imported independently in different places? Is usually assumed that paper fooding was first practiced in the Hasile there in China on apartial and their always cased how there along the canolors agonites to discovered independently to Hurshell in this estimate are incomplished in the processor in the production of the East. There is no evidence one was on the larger

The Japanese tradition

We have no more than a few scattered grapped of carly paper folding in aquat, when paper was been a many very utilization, rangingly, and determined. During the Helait period AL 194-1185 the cultivated classes took pleasure in jetter writing and it was emissional associations to send a letter utilizes it was emosed in a precise mamper. A cultured man would usually earry a two, which was a simple fittled paper water of mid mandacetness or papers or writing, in this partial paper was also used as o material for wrapping archivings and spices, with the wrappiers becoming rather forms lived in sixters.

Former 23 don was always a tendency in Japa 1 divide the Muromach period 1333–46001 society recalling governed by right codes of etiquette tegil lated by schools of behavior, spich as the

ഷ School To namicutu, the giving of was closely curcumstriped, etiquette. and the that every cift inspicually or flowers. id have its own species kind of paper wrapper. se wraphiera known as to the training rately pleated fan shapes. The use on Northern raised throughout the Eq. period 1600 (288). ervo todaci although their ase has declined. ti modern japan, they are sall used to wrapare sometimes exchanges by Jupanese bearothal removed as ang format, gait, which would be given re-remains consuming was of shaking. This hed firsh of a shearish known as The gramper was falled a 108h. an en de phonone was repusced by a 🚁 😽 ip of vellow paper and the noshsel: breamne mere symbol, with its entre divisió sátir lature divisto are soll. menty artached to griss to apan today much in activest we mught a sadra gift agse of paper in Japan was bridge til terosa e ši tgo shravev and toher. --- with the tremade by a cut and fold O-Street country rang from a strongment pe triarking the houndary of the sacred. were probably derived from sains or 🊁 🖶 को it is those likely that they originated in the 🚤 🚃 period. A Colher is a smaller, double ngzagi day her ray size in a where it spail, where itenotes the sar of the deep honored there. er carty renember fall case in paper was very

াজ্যুর used (৪ protect the mouth of flasks)

a rice wine or sake. The paper was
didenon appared, he needs in the flask and

a cord. The smonthing down made a

makes radiating from the correct of the

naper and it has been suggested that the distractor covers were fanciously though the resemble out terffices. The garper sweets were lien formanced and it became constant at the reale flasts a to other containers used for sake with pairs of folder paper by carlies known as Ooko teals and Madrid is make come others.

radational larger (sell-yeddang sace is simpled)

by the aride and ground to see, the copuract and the

which an inche patienties we still associated with wednings tours. They are the nearest kind of

ancieni japanese naperfolding vekar find to modern recreational folding and we can see खालकुरुङ (म. htt or Leifles)। modern origami undels folded from the waterbornhingse, see used Japanese commentators find a difficult to pural. date on the origin of the act areflies Scene suggest. are Murortiachi period, and they may date from the Hetar period. Whatever the date, we know that the by carflies have been replied for anany dense has writeugh paper folding for play or tricteauen may have begun to evolve earlies, it is only in the tale. period hat we begin to 0 ad any information about it make the remark the first Bustrations of recreasional folds brain to appear as a study 🐇 re in a stort will at least the up storage of or or flowing cobes of the wealthier crasses if he in the which is such promise outs as the Chinese rank the classic craire, simple brats and the wandering flacplayer known as Komoso. All these blue are mitsymble and are of the kind that a busualty associazed with children an lact however, he gried track trecks village, ever except the tighter at the forded by mung adies from the wearthier classes in is not until the 19th century, but pictures, if children folding prooms fiet user.

We have many japanese priors and woodcuts allustrating folded figures from the Library Robinshipping, One important woodcus of 734 shows

Komoso of a the sumulypalor busts and crangs are some of the robes of the eather being period. This works which was apparently the first modular model and a spipolor or container on keys that is still follow today. The container as that or gamb for play was well established by the Huble his

In the place of the first glinner of sections of work of so its and not it entire for thikisen. The vear 1797 sew the publication of section of sitting the classic transforms suggested the initial square custom very strong white paper is set for a series of amatter squares joined arther comets. Some of hermonels are simple with to more than two or three cranes while others comets, or a purious or three cranes while others comets, or a purious or three cranes while others comets, or a purious or three cranes while others comets, or a purious or three cranes while others comets, or a purious or three cranes while others comets, or a purious or three cranes while others comets.

Employing the characteristic from the Chorn of Chorn, Ji Employing where now the Man prefective. Also have some source and cated 1797 and two in med sheets known as the Christiangura Orienta. One shows thusbasions from the top open a conservation of the top open of the characteristic care play. Characteristic care in the play A material one to the sheets announces that there will be a few publications of the same series, but so is notice and one of the characteristic publications of the same series.

Notice a class, we amound a distance of a di

on a Ongon from 1950 by Talsar bark as a a syn signer, hilly to engage the Sth century The Kn progress or Ken enemado a hand-written eneveraned is in 383 slender columns dates from 845. Volumes 27 and 28 are devoted to paner folding. Its another around the who and electro butterfiles as well as journal Buckgrow wrappers for spinks and several kinds of lowest In add-note these are instructed as for lowest In add-note these are instruction is for folding the characteristic sitting buckgrow figures of the kind stiff folding for the mallifold display of dalls on Girls Day, in kapan.

By contrast with these the rest of the follow illustrated are compliant recreations, utilized: animals insucts and a meanificent crab, several or there negle tittig a in a deeply but say pointed stanbase. The spiemeid dragor #9 begains expectall. artifolis in shirms that those folds may have come. from the same source as use berabas and Orikata. purhaps from one of the promised, and as yet a halscovered injoks Whele the Kayyagusa came to aght in the mid- 960s, kasho lichivama, the coungest of a family of distinguished folders. enalled har his granicas when had folded models in rusi this style sadily at his nein has been destroyed. an an earthquake and during compling of the serious world var Other evulence of smaler. advanced folding insing the principle so are can be confident that as web as the sumpler "childrens" iolding, there was also a more one her gryle of iologing than was practiced by adults.

has been suggested has paper folding for play? was passed or near daugh terms practice for more senting. This approach to me in roduction for me in roduction.



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rri: An earth neori Ly the Japanes elaster Akero eath, were

or of sindergamens by the on or Friedrich Probe on 680 Auready an organishte or the Friedrich Europe, paper as bringly to paper of the aparese of paper tolling and established.

en he op ഇട ഷേദ esulted Paper

as then introduced into the

and the folding ar namer's been hassed down in families a chool sciving

about chaster's folding began to be apart about 1890 and the word

- em without randominers the necessor ally remaind appeal obtaing, was applied to a colding on the first time. As a result paper folding auderwant a general quantity.
 - Inna Chill Pen's models began to be ogether and preserved. Two collectors

 1870- no. 1940s were too Hondi and Sakade. In the 1950s they were inspired that though apanese folds available to a Series of books on European.
 - i vever, the origami scene changes γ with the rising of a new star of
 - regards the most combus paper tolder
 rel habitate a

he Western tradition

er go back on time and disce the early

er in high Europe Apain from the

aready mentioned the earlies:

areads mentioned the earliest
 suiding - Japane an in the frequent

pictaires has have come down to us from Egypt Greece storne are Byzandam which show an preating was from the earliest arrest a popular way of leaving as usbing while preated dothing may seem armore from paper folding, he tokeng and dominar papsing is

considered to be closely related. The cogue for following naphins began in the 6th century, when infrincely labels later to be decorated with napidos tolded in the form of that's armais, only, and salling ships. Illustrations of these have survived in books written in Italy in 629 and Germany in 1637. Most of the creations are made from large, standler hapkins that have been pleated and cross-pleated so that the resulting double-pleated cloth can be molded into the chosen fantasies. It seems a long way from modern longing, but the Italian and forman books also illustrate a few simple molividual hapkin tolds. Significantly, both illustrate the folds that age still minutain of us coday and is snown as the waterborn base and the fill a loss.

Abvoice who holds a piece of paper instinctively plays with at Folding the sities of the or mers ingether is one obvious thing to do. Combine both the diagonal creases and the northonial christes and it is easy to arrive anythan we know as the Preliminary base and its close reletive the viscerbount hase. These are two of ionar's most against an starting folds or bases. Another way or praying with a haper square is by folding the four

III are to the center. Notice as the editingue known as in meting, are square. One of the models following. Necessary from a square capacity is the water's. Necessary the table controller account to the same book ouers to the later life out that incompand it a note one ill harviers dated. 662 on an eighthman. Gites Rose, He carrier in a larger.

The 'double blimtzing' technique is also used to our this versum bese which is some her fundamental base is paper folding and may be used to be a some as the some consultation. Square that the assumption several cere interview for several cere interview for meaning boroscopes. The Astrological Square was first necessable acrado Cheorema, an italian who aved on interioral and after century section acceptionable codes that a square design should be used for representing the positions of bear entries the assumption and the area and the interview of barrents be used and the presenting the positions of bear entries and the appropriate mitting the mitting of the m

A later use of the Double Blintz suggests that he Astrological Square pasts of greatly busine been outed for the 10th instruct there was a lackle or in sentral Europe of interparting patent-brieves" of represents to babies on their haptisms unsurabed with prous of it has increasing and the dome of the papasar, they were folded into a Double Brings he folded patent-brief of infedrich Frödel is still exhibition at directions the folder has been cause bard that directly the Blanken being an entirement of his heer cause busined that directly the Balancesian, as again togy tell into disfavor with the I harm's haptismal brieves were

d using are whether ages for Fuzzipe, only a resystraditional for bosed bases with a radial expanse powern such as the Preliminary

aseu answad of sim jih 15 rojuga iburosognes, which

thay have been drawn by for the burth of a child-

and cerbo in a condition the action of the Frog base was known. The Inliance effectional in a bid of total puriser's play. The Dichess of Maiff, in which webside refers the paper prisons in which small boys our flights and raper to the ended is known to down Egypt. Chine is ideapared to the reason bomb are the ker is and the Botrows while the ramifiar Swanow or Ginger are negins with the

which more controlly han the vincerbonds and as the Wine high base related to the Bings high actual adaptation, many mounts can be made from the processor of the control o

ं भाग mass the windhall userf subject surbin so page (7 क्लोरेज be Windhall Base the Medshitz)

One of the past known European folds is the north as angular bird reserved by a cangramity as spanish name of Papar, but at France is known as "popular, while in papar is known as for dog. Despite intensive research is not known which or where the Paparina reiginated authought he Spanish trinaciously on a manner.

todals for her form the Double Blin 2 or a more of a more of a more and a more of a more of the medical between the british between the state of the strople out strong box known in paper as a Mass dox, is also a study british and Dating from 1806 we have a Dutch print, which has a picture of the more complicated Chinoen park. The junk rate is a class to always the Multiform family. It is possible that it cause in the Multiform family. It is possible that it cause in the todals but we are not sure

adict important early rainopsin tolds closely related to dir *Payarita* are the latentian foot soldiers and mounted soldiers with their corses, which take

arcee: 4 f and 320 hase are ined in museums in Dresden and Novemberg one have suphistician paper in any inted be

mehoringhe 19th centery references to faiding → Europe become very frequent. As: wady been stated. Pröbel adoptou papin ragio his system of child education. first as a for children to discover geometry. He landadianoma fords to equale children toward nematical foliang. Third is perfect to first per full may total be a treative activity and re- encouraged the folding of paper partems from ot paper by limit blinking" them Prober duri P52 by the successors continued to teach er folding and their many books show how ensire was the reportains of traditional mudels. ave in Europe In the 9th tentury 16 854, japan remained a closed and isolarn. шил Аз а гозо, о т не дольках дірногласу от · hydrore A arthew Perry in that sear, tapan. energiner borders to the West, Amune the thatkhanges that followed, Japanese magical is negatiin head one against the limited States, It is aroad how an dec 18. Os obey world askar is to алујепреу су пина иниц в га де яфцаре ол ier With a few defi thps, the magarian had a birpung in his hands. The secret was that the to our neep pre-creased, not be the glare of the eight dus was not evicent. The

andurtion of he coung Blird — extract Western ang — was First

> Paper mode manng ano nin mhama ara

published in the *Gares Core Paper* — one of distant such made frequent appearances in European make of pader science and childrens recreations. The furnishing Fring soon followed and with these workloss at Birm base and the Fring hase were to consect to the fresh

Toward the end of the Art century interest of pages following was invegerated by Miguel do-Upp trupp, the Spanish podosopher and poet who was the terms of Salaryance indiversity and his dearly at the end of 1936. He delighted in the playfumess of paper folding and where he wrote his nove Amer. Partilegation 1902, he appended to it. his "lorrings for a Treatise on Corottology," This as a month-serious trestise on the Potertra. which he poked in the pseudo sciendific tea logs com not at abat time. In the same year ne wrote a short article abbut paper foldling for the Argent high you have y Careras This amide. was liusused with a somewhat angular standing bird, which he had treated isting the Bird base. ed to the high have derived from the apparess. comparers. Unarrumo's bird also made use of the Sidnways Turn," which was a end in asset nitenendently and to even greater effect by Akam. (Ostimies e al Papari)

Tamper for fresh approach inspired a lively of refers to paper folding among the sciedor is on the University of Salamanca and it of read to the rest of

Mak nd

Spans during the first half

or the 20th century Allen

led by Dr. Piccour

Sotor and algorithm

yough the new ideas to

Argentian where a

leave group of paper

folders for rishes

A hong that less

ga Montoya, who had been a student it.
Salarna it a and who developed her windoward are give unity in work between election at variety performer who reflargerating or raivel be write in the foliars associated with the Origanial enter in the foliars associated with the Origanial enter in the foliars.

vicaniwhile in marthers Europe and North America, conjutors conditued to asy paper off Fig. in Broken Will Blythe of the two trooks of Paper. tagle in 1920 and 19, 3 hoth or them consisting half of paper folding and half of magic with paper до 1922 — јонски, миров а виски ање ражеd *Рарег* rught. The work includes the Happing Bird and a few other fouls Two states Aspenuse magnifants william A Migray and Francis, Rigidov in Fig. with Paper Folding in 1928 Apazt Institute Frisbolian books in its was one of sit monograph on pager loiding in English iii 93" aporter book devoted to namer folding but with a few other paper. plays Paper Toy of along was were the "fargate" Laprinhell, a South African grandmother, Mrs. couphell had revoled in the Basy and sho innuciaced a new collection or conditional rapamese. Folds - The Most

compares also book payers the costellor folding notion wills, which was marrive diversion in hers where carre to each out is would one into each are costomers in the mid. Addition was reported that at a rangional is an armount of the heagon of the near their were wearing a finger if ig forded from a action bill. Bill totaling was proposed should was a filly will gook the depend of the first booksets about to began to appear in the rising origanal marchine.



allove, Lanie Advantese book. Fram the 1960s frontialed folden example: allower inspire

The origami revolution

During the denade of the 1950s pape, folding was completely its informed. From being an observational olds it was changed into a coherent array it with these serminglows and reclamations of its own.

The mansformation began in 1945, when an American Geraham, grow in which he good emiscovered his childhood pasture of paper folding dusing a period in entones, made in the researched the subject in major American branes and began contamination in with everyhody be could find who shared his interest. He also roughout paper tolders in lagaritated south America, whose names have the arms one along

From ever the signal for dramatic change rame in papar with the publication of the pircula magazine Asato Graffin lanuary 1952. Its mark the new year flustrated 12 original designs for the figures of the izpanese zodiac by the previously of known 4k is foshizawa toshizawa was ourned \$1.000 and had developed his skills from chilulicod analoed. He discovered new rechniques of flucing, but its addition he had an anato general for seemalgly bringing his models to are. One aspect of his ar was that he stressed the importance or creating new models instead of stavishly conving that hones. He continued to practice his articulating the

ar while working as a medical

allowed the antiquence was

se paper folding his living, esting

its dring means tobs. Slowly the
sace of a groun of reachers and
represented. His work

a his Tradasting away the editor
sent secognizion by the
yed an exhibition in
a next and respirations ife.

Linexpected happened. A

Linex brough, Yoshizawa (o chr nichoe
who in the citien move)
orne officulty. Legenar
orb with Yoshizawa who seru
had olden for his
che a purition 1955 leg nec

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TL-O

vas there able to the on an exhibition of fool colorists work at the Stedijiak Museum in Amsterdam. The exhibition was an ansaediete success and it brought Yoskizawa to the nounce of the Western world only their years after he had been recognized in tagson.

10 953 in Britain, abother stage maginum, Robert is not recome keenty interested in paper folding after coming across Margaret Campbell's Paper Toy Making and he started rothering every scrap of information on the subject he could find. By a temarkable stroke of forth te he was put in rough with Gershool legistal and they immediately exchanged exceptions they know about the subject in parties for degistal of Harbirs about Yoshizawa's wonderful folding.

Robert Harber was influential in the retainment works and by 1955, he was demonstrating naper folding on BBC childrens interision in 1956 he published his own book called Payer Mago, in which he summarizes

everything so far known about the art. Harbit also identified the common basic folds and

> tech in, des am gave coindui tarmes ro is most angonasi moves such as Petal e dus on. Banhi s'éars l'autin also emphasized dus imponance of

> > reshizawa's ideas of creative paper tolding. None of Toshizawa's models was included in the book, but it to ferred to Yashizawa's so being "far and owny the greatest tolder in the work."

and devoced to this delicate and graneful actions to an extent which is beingly ressure to believe

In 1957 Yoshizawa published bis qwo wuk *Or guna Johnnon I a*ad he not only reserved many of his monels, our couler attroduced his system of notation using arrows and noticed lines for mountain and valler folds. Although the rook was in Japanese, the span notation could be understood by everyone and eithus sistem for Yoshirawas new original apread.

Meansyltile in New York around 1929, high na

F F F

high try a mining a get in Oppenhei her had entertainen her sick daughter. North, with the help of Marray and Buney's pook. see page 6). This book contains the Flamming Ried but after Molt, got better, littlart it igut all abour. paper folding. Her interest was reawakened about 4953 when she saw a distant pelative failling the Employe Bordan a parry. She eagerly sought on the how to foke the wate bere and with her mend Process. name she entations about began to teach and promote the cadiannal models to amone who works lister. In 1957 Aillian was sent a copy of Robert Hurbin's Paper Magle and she received it. with enthusiasm. This was paper folding such as: she hau tiever anagined! Her evangelistic zeal was redouthed and she immedia ety crossed, be-Mantic to meer Robert Harbin. She masseo. neeting Gerston Legman in France only because be even amony from two risk

en the same time. Lift an deciden that the term paper folding, was not distinctive enough and size began to use the lapanese word "ongare." Instead This invarianteed quarkly captured the assignation of interest and a became established in the English ranguage from 1958. In May 1958 Liftian was rentured in an arrived to the New York Times and as a direct result of this she appeared on one orientation program after another. Congaint was suddenly famous.

Lillian Oppenheimer was not contest to rest or age authly. She organized organic teaching sessions at the great teater in New 2016 and also rolders who confunds got there. Thus the Origan Cernet feell, rust an extension of addian Oppenheumer, came into being, for the first that origans had its own center of activity and became focus up for ters in that is with a winter connuties too Lillian later also made origan books available, unduring dates of Yoshizawa and organized needings of looders to be countificate in a facely 959, she visited active Yoshizawa in own or the following day she contributed a display configural, including many of Yoshizawa's creations to the exhibition. Place beametry and Fancy igures, held at the content of New York.

As a tesuling the separate but linked audiatives.

by Akira Yoshizawa, Gershow, egipton, Robert.

farbin and Lillian Opporthetmer, angains was Tale of the part of P Pa arm. People who had previously enjoyed paper. folding in Isolation dow communicated with each otherundi discovered (ite new jugos or Boshizawa) Existing folders, such as lack dulbrian, Robert New ansa beorge Rhoads, were drawn to as well as Light-Moninya in Argentina aru: Adolfo Jerceua, rsu: hada e de interest, an astonishingly lively exchange by correspondance took place between them all. Ne.... gerauses such as Fred Rohm and Neal Elias quick emerger auct in 1961, another new folder samuel-Randlett wrote a book. The Art of Original, which built or the work of zoslozawa and Harban cartonalizate die system of totaling orthonours and bases. In 1964. Randlett wrote The Best of Congrewhile Rubert Haship wrote Secrets of Organia. These area books presented the work of the leading. new Nesteral for less loral worldwade audience. logether, they so mittarized what had passed while becoming a springboard for the future.

and where the region of operations are standard to the control of whom got the control of the control of the American control of the American control of the American control of the American control of the control of

Hore was dictact Stall who have commended as a voting reacher. He necame as a sufficient became older a more as as after became older a more resource. So Michael nor of A too Gray proposed a parallel and to assist the Origanii Center In April so group of associates of the Origanii et group of associates of the Origanii ally argunized as a not compositive which the name Emends of the en Wher Adoles argund no vere made for the Emends to her office as the Australia de the formation work the argund the enter the one in the formation work the argund the enter the one in the formation work the argund the enter the one in the formation work the argundates the argundates of the argundates the argundates of the ar

n died on Italy 24, 1992, the Orienna.

rendiralité les la la religion

neems 35.5. They continue to have

Milliand National Instance are

irjanm: society in the inited.

an even increasing or indeed of

😎 то тапу этгедет гедюца, дтопры

birowed: bracert



English bouts doonlar to paperfolding.

or the stimmer of 165, Toyak, Kawa) led a lagty or Japanese folders to New York to visit the New York Work Work Fair. Among them was Mrs Toshie Takahama, a broadcaster who spoke excellent English. Lillian Oppeahimer arranged for the Japanese to roses American folders and Mrs. Takahama was smark by the free and equal wey in which American, both experienced and novices associated, with none of the formal relationshop of master and pupil that was traditional in Japan.

When she returned to topan. Fost to akanama determined to introduce this new approach to inpan and two years later she formed a new group called hosaku trigathic troup. 67 Analog, he members were Kun biko Kasahara and Missimoliu borrobe. The Sosaki, Origami Group was influential beyond its numbers and was an important factor in developing multionables between totalers in Jupan and the West and introducing the new Western discoveries to apan. The cross-ferm isadion was to have the dramatic consequences for origami throughout the work.

Communication between Jepan and the west for anshed an intervisives developed one or the for taps pass folder. We are two clear was Dokaother Nakara, who published his ideas in 1977 in the form of correspondence courses in lapanese and English. He combined parts of Lifferent bases in the subdivisions of the basis square and created a vasi, but fieldblosystem of bases for his models, most of which were birds and armosts.

Another raps nese folder was Shaze Pajimoto

"this madremal is a same of upon redeveloped many dazzling new ideas in origani).

leadeding rivini folding origams rescribings

pulyheura and representations of molecular

soluctures. It also greatly advanced zigzag folding.

to many ways the work of the taguatese from backawa resembled that of the Americans, Robert sang arc, toha Montroll (see below). Like dread, he ballowed the haste concept of the classic bases, but developed from to now extended ways. Acoustical Kasahara had begun as a creative forder in the general manner of Yoshizawa. This a some point be value to recognize the importance that mathematics bound play is folding. He introduced brooksawas gent is and in 1993 he seiflessly sponsored the publication of vitos.

Activation of the control of pane a control of the set and was followed as to, original, which explored the appropriation of much made active to ongain. It fear the discrete from Japan and the West mustasted into English as Original for each encourage, it was very influenced to specialing the time concepts of original.

n America in 1988 Poter Engel wrote Folding disfirmers: It inclined also do of the mathematics and edizing the classic bases and showed how to create complex new bases, which made possible the folding of insects and sea creatures. Robert Leng and the Mondon jointh of the Origan. Sea Life in 1989 they too lists advanced onses Both books took the art of folding to tilther.

with the derivative control rates, to tree, shells and even sea or hims could now be roughd with the chair logs, antennae, and spines than a gene Montroll rates separately whose earther books which spanded not deep about the lower and also took you pleating to its limits and his Black forest fairker functions one of the plantage achievements of rouding

Main for Irigami, or Unit Origami" the piccing angether of many similar modules as a least than his proved which popular authorigh there had been a few traditional examples of mountain tolding from the righteenth century it was the invention with an about of the Sonobe Module that made modular folding pupilies like ties, steps forwards were agen by Stove Krimball of the I nited States in the 1910s and the deal suddenivious of throughout the work

in 1983 a young ispanese folder. Tomolo Puse came to the notice of summarizated and outpame was quite millerent. She concontrated as owner that used a few range mixtures rather main more assembly of many small and is. The elegance of per mounts quadry attracted to the style folders who would not otherwise have been interested is 1900 tolding.

In the rate 1980s Jun Maakawa and Robert Lang both published schemilic acutes on the new randement of compare a largern and in the early 490s Lang created Thremaker, a program for Jackinsh computers, designed to assist an absorbed to the restains to be for feeling or bases specific to the restains to be for feeling as specific to the restains as the decided for creating bases has also been taken up a squae by young forders

- ്രാ ച് ലാ വര്യിലായില് മഥട or solicings പരിലെ പ്രകൂപ്പില് പ്രച്ചു പു ചടവിലും
- mgsm an erdan," which theads "The field eves.

be drought that complexity of one surror bas overtexen origamic it should be done that award folders creature to admire in Minimal rolling. The folding of a model in minimal or unbench folds and Pure Land gard 3180 Jupular Print Land Folding is a led by form \$ Min in Land Folding is a led by form \$ Min in Land aritain. By using landar and maney folds and my avoiding dids thus award as simplifying origan) for any infactionapper odders.

elepment of rechaining has not need as to devising new and ever more complex its The process of folding itself has enclosed over folding itself has enclosed over folding of the decreping of the rief are or it or agreed the decreping of the rief are or it or agreed and to be paper to be moiried or sculpted, and to be acted into a reoder. It has been a mit of structure solviers, probably the inflam.

Lighter, with the inserts, and the American

acrept of original sculpture has also been

eth main of in France where II has raised

the given of a flaction legal. By the

value many suppressive textured wall

is which ask a metricular from his pleating

has origined general acclaim for his

soft of sculptural heavy which the quote

ungainst rechniques to achieve an only g

E force, occurring trained a diversity of receivering methodotts inclose nd coras. So he of them a spear of the soundingam, year here we still firmly tooted renfolding section (188. A rother paper) sculptor is the Ariton I an Jackson, who uses a cross-pleating technique to create elegant revoluted bowls. Jackson has also studied the sestherin curves induced in asquare of paper by one or two creases that only parally cross it.

The developments buring the last of years in what was once that we thingen's pastore are remarkable, has call he explained in the wastlemproved continuous across the world as a whote and especially the ordermon of the line he and the World Wide with Origent someties have fait that directions across the globy darough their magazines and there makes, and some incontinuous convertaors at which folders have been also ment in person to also as now ideas.

A glimpse into the future of origami

By the beginning of the 1970s, people were starting to think that, as that could be known about chigari, had already been discovered flow wrong they were! Origanit has continued no levelop many objectualization new techniques and to diversify into a galaxy of different styles. Where will the next developments be?

Could habe at the tar of median paper and curved creases. The use of all order paper has always appeared to be prelevant because when a norder is tolded over it always makes a straight line and straight. These commute same patterns to matter what the shape of the paper. Yet curved creases are now made in haper miningly belief jues setch as recision creasing and northy the simple orders of it long. So this may be the riext development. There are attended some intervals of curved creases and circular origams. But if the experience of the past 50 years is anything to go by, we are likely to be greatly aspinsed by the new origans of the luture.

Essentials

Following diagrams

Irigami diagrams use a standard set of symbols and phrases originally developed by Abara restrictive and extending by Robert Harbin and San Randler—tress symbols which are encaredadependent of language may were neither single coost significant factor in the spread of original around the world. Here you have learned the basic sort you can then start to fold from diagrams drawn that are anywhere, making original a truly worldwide activity.

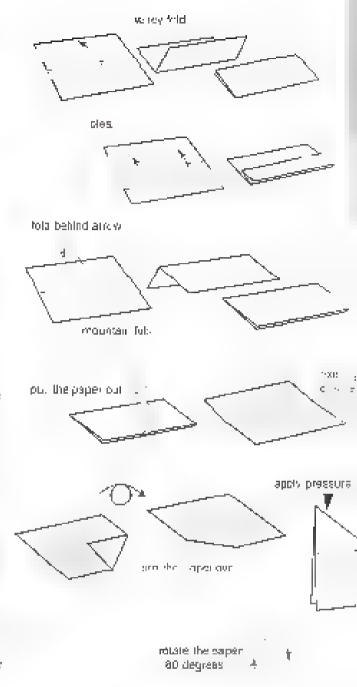
Any locasi made in a short of paper creates awo tolds at the same the lawattes of the where the paper folds toward you and a more main fold, where the paper folds away from you. An arrow is added to show in which direction the paper should move these three elements above are sufficient to make and follow many gregamit designs. If you add symbols for "form the paper over" "pull some name at " and apply pressure, you can follow aimost any diagram ever drawn:

A number of extra symbols have been developed in make the diagrams clearer uncluding diagram scale increases." "Giagram scale decreases, "colate the paper" and "North sies." There alreade the extension. "fold with feelings to indicate that the folder should also special care at that stage, The

phrase was requestly used in his many original adsects. Within a covariant Small, a condented original modulation and orders are

The symbols illustration in the column opposite are used dishubbout this book.

RIG. Trase are the symbols six are most likely to new other following deagrams.



scale gets smaller

acase gets bigger

Eld with teeling ... *

if gan totgant model, you can use
if the of some the or it totations
tuper shiftld "hold" a crease and not
that any multi-layered sequences, but
contains multi-layered sequences, but
sequence when you have mastered the
make at exhift if it is quality
there is also note as affilly about the
tips it consider notude.

क required size of the findshort model - sec the practice sheet of papers - माहितालंड

in the size of the finished mode, and scale

es maner up accordingly Remember

er the shees of paper, the mode the

naper will spite or read if you wish to any wet folding a moder, slightly ducker paper is often better inteally among wet folding using "correct paper, a French brane. Not only does it wet fold years well, not a correct to a useful range of culors and has a sught retruie on one side.

Pirleam, naper is ideal for practice since is a smallrisp and brighdy colored. A is also suitable for decoretive and modular designs for will find that some abodels only on the fact that original paper is usually write on the store and information the other

istan when practiming an original model, on the use income different ages of paper. The own transmission are the the paper signals be able to have a notice.



This contrast can be used on the finished money out many origans artise won luse regame paper for serious folding. Each will have their own preferred type of paper depending on the money are not uply ig. The America ands: Michael in Posse, actually makes his own undividual shorts of paper combining different ingredients to artise the result in the sent mand.

Whichever type of haper your choose, the most important thing is to make sure it is perfectly square. If you buy angresheets, you'll need a paper turbs or the form down is size of your are much down a size of pulse and leating boars thin be used, but blease be careful.

Folding tips

There are a number of though you can do to achieve success when following ongazin the grains

- Fold with someone else, you can help each other
- beck a couple or steps in advance, to get on idea of where you're going
- Refax and take vota time.
- Borate your paper efter each step if necessary so in matches the next diagram.
- If you get teatly strick istart with a fresh sheet your fording will be neatenand this reay help you progress.
- Check that you are doing what the diagram says and that what your fingers want to do
- Jac a jarge sheet of paper—there's no point making for more difficult rain it is.
- Folk on a flat springe where you will not feer compact.
- Make surenie lighting is adequate.



e 1. 4 Thi RE are slandard sequence includes it actions a miniber of points and lavers. Fach sequence includes the law affects a miniber of points and lavers. Fach sequence includes the law affects a miniber of points and lavers. From a base substitutions shorter can literation in several penings epsilon example. "Start with a Bird base." Many or gaps hooks also use a second level and the committee hases. For aspiring creators, it can easier the event have more in several products in making with a case sather than a place square.

The precipie who are new to bright it asks are conformed using the indicate process of the page. The corners of the page up, how it affects the shape of the paper, how

் layers are formed, and so forth. Try to ming a le inside ou ! Bases are wonderful examples of ஊக்), ரல்தால் ச்சியத் sequences and can

emjoyed in their own right.



Kite Base

With only three creases, the Kare base is the supports of the traditional bases

- Seart with a square and fold it in half from comer to opposite conser presso and ratio.
- Fold two adjacent sides to napel the linguant crease
- The completed base.

You can see dearly where the base gets its mann from Although this is a very simple origami sequence, soluces have discovered many wonderful meations work; it as their starting point

Blintz Base

This is another simple base, which allegenty takes its name from a lewish pastro-making technique. Since the essence of the base is a rote four corners to the center you first need to establish where the enter is. You can do this by for long in half from side to side or corner to corner both ways. However folding to the center in this way often leads to slight errors—the last corner doesn't always meet the first one neatly. To get round this we take to an edge rather than to a crease.

- Start with a square and fob. can half from side to side Unfold.
- Fold in half using the other two sides.
 This establishes the center of the square.
- Folia we outside short edges to an along the cop (folded) edge. Repeat on the other ship.
- 4 Infold the ayers from underneath.
- a The completes Blinux base

orrosse: Although simple, the Kite ann Blinz, ours are fundamental starting points for many designs.

Fish Base

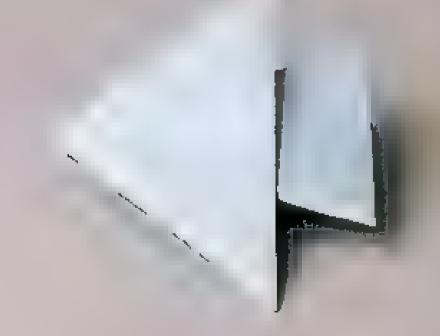
TEACHT TAKEN DASK a Lep factifie Har will taken the service (also be in the manner of the following regime).

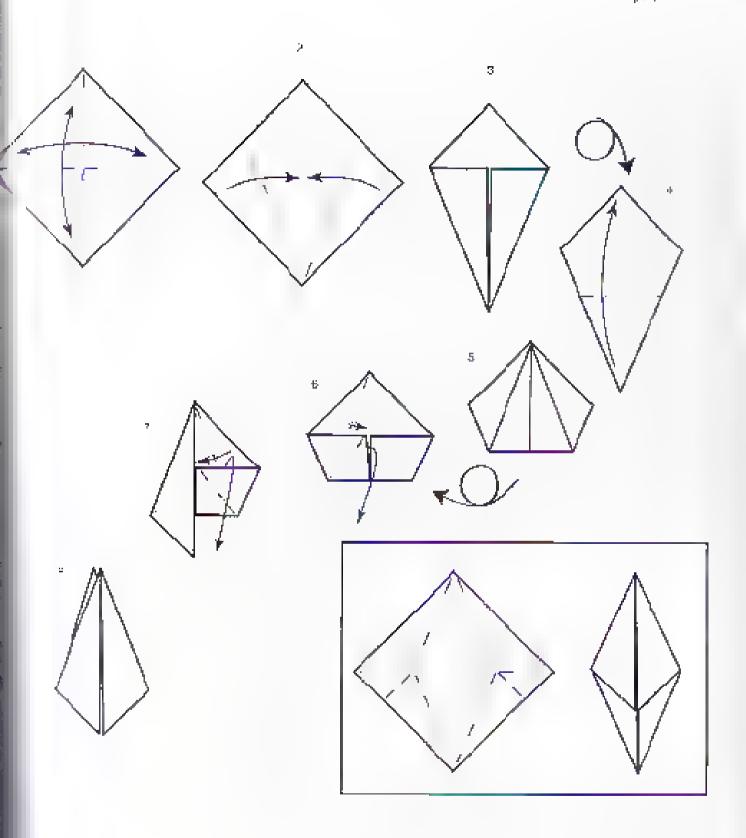
The service is the following regimes the service of the following regimes.

- Stanta Epidemonia reason
 dotti agriculta
- 2 Hospitano aldes to the return resistant
- B is such base partitions and entire
- Hold the prometries on a up to qualify
 content
- 5 constitution in the paper over.

- 6 Place struct finger in a service worker inputing under и се получен service de service as a service вире — 18 г. п. пет се diagonal a vase.
 - 7 Files as Report the single a proving
 - B is a december of the

is the location application resides that it is at a 1 to the ress. As a low in the booked area of about a the long sides. It is forgerous. A term of the surface in the property of the second of the





Preliminary Base

This combination of faith creases appear up many folding possibilities. Seece it creates five points in addition of the original four counters the other way untain thing to remember is the the diagonals and sure obside creases need to be an opposite sides of the paper.

- Start with a signaré colored side upward crease both diagonals.
- 2 That the paper over and charge side to aidboth ways.
- 3 Botate the paper and use the creases shown to bring the top-countriousind you as the sade points fold unvalue.
- The counteted bas.

Annivier somewhat imexpected route can be used to fold a Preliminary base.

- 5ts if with a square white slife fade upward, creased in half sideways. Fold in only from outtom to cop
- 6 Fold the big our right comer to the appearance or the appearance of the same point.
- 7 Put your fingers in the central projection.
 Offer our gently pressing the sides logerhor for online up with an apardendown.
 Presumance, wase.

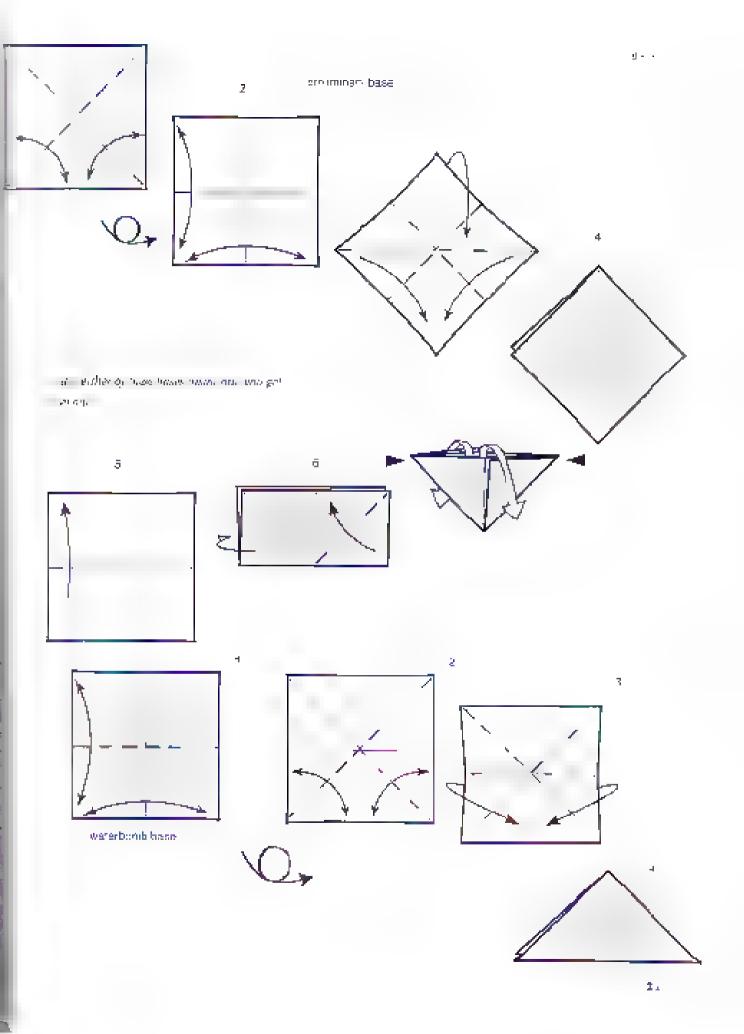
Waterbomb Base

This base, along the traditional waterbornly was play bave played with an writion

- Start with a signate, polored sing appears.
 resise side to side both ways.
- Z Furn (lib paper over and chase both diagonals
- 3 Use the creases shown to bring, betop content and sides lowerd you as the upper edge soids aroun.
- 4. It is completed when

For may have noticed that we have used exactly the same coesses as for the Prelimbrary base, but we have forces the cheeses from the officer side of the paper. Either or frese, we bases can be supped aside out to form the other Try it in its fire.

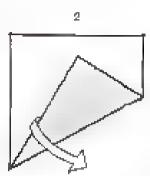
Can you work our low or future were rebord; base sangle method similar to the second method give for the Preutumary page?



New geometry - creating an angle of 60 degree:

Traditional bases generally use 90-45, and 22-5 degree angles. However, the two rolliers have begun to explore Nills in the renter 90 and 15 degree generally. The notifs new shapes and many as let mexplored possibilities. An angle of 60 degrees have portaingly casy create using ongeni



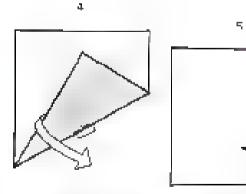




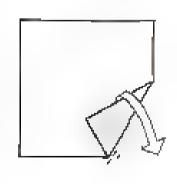
- 1 Start with a square way has been forded in half from side to side from the tower right come; or then the crease making their ease star from the lower efficient
- 2 օքան արևու
- 3 The oreast has requed angles of St. sm. GO degrees

At can use the spine goomets, to divide a side up duries.

- 4 When you make the second crease door created in the reasy out place it is real masse, where in created process intrough the folded edge.
- 5 Fold the tower fight under looke prach mark accessing party the rosses each of lar sold.
- 3 ในทีกกับเลย เกลร
- 7 The last crease of made marks the point of durations the inverteity: sing or continuous add tertifical creases of the physical creases of the physical creases.



ising thirds and 60-degree angles viil open up hea areas for exprension





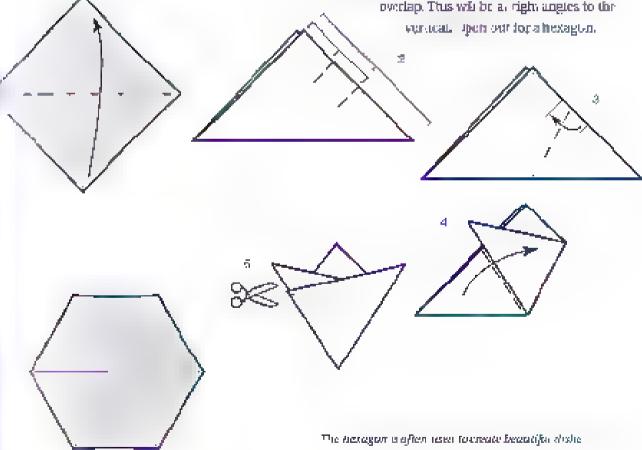
Hexagon

nough to ich ör gam is of iet from squares. re are designs car arms, other formars, the angle has been employed for folding ises. As well as offering a "square with extraai one end. His format has tevealed a onng underlying geometry that has aced some versalue origana modules, such

as the A4 Rhotricia in 1884 page 99). ther anapes that have been reploted include triangles, pensagons and bexagons. The English folder. David Brill, has produced a very elegant horse. and a family of consusing a totangle. Few folders: have explored pentagons or hexagons, other than for folding flowers and dishes

Subtrach a square will be legared dease. ild one end of the diagonal to the other. of short creases to mark the haif and quarter at an interact the louble raw edge.

- Startung the crease at the ceater of the tolder edge, fold the balfway mark so it lies or the quarter-way crease.
- Pote the lower flap over the top of the appear
- Cur due for section horward, where the lawers ownlap. Thus will be an right angles to the



distred has

Crease patterns

The estiman paste in naive in the can reveal the underlying geometry of traditional High hit. All we need to do as unfold the base back to the square, revealing what is known as the impast pattern to it. With many of the bases, it can be seen that the trease pattern that is implicated as he bases grow more complex.

Starting with the Kitchest of vertexate the appearshaped triangle about profit O. we have the short of some of the Fish base and drive make the Frogresse a appears reliagant. We also find that more complex structures in a supplier way the basic elements of the Potaminary and Waterborna bases appear as part of the Blockests of the Potaminary and Waterborna bases appear as part of the Blockests of the passes.

similar techniques throughout the tokling of a model, even when it becomes complicated the same techniques, who succerte mand so the same techniques, who succerte ware present and so the same techniques, who succerte the manipulation of the avenue of deaps to used. The patterns also reveal the tribunestal devision by two genmetry syntesi of many distribune designs. We start with 90 degrees, then profile it into two meating an angle of 45 degrees. This is further living an angle of 45 degrees. This is further living and angle of 45 degrees.

Bases as a barrier

What beses are essential for a large pain her of origami models, they can also be seen as a notential painter to new designs. By attlizing

extening leases and techniques, it is essuited that our worldown most is a minimum of which designers dot before a selected standard leases given rung to develop a unique base for each design entanging, he paper is the optimum way to produce the required points and flaps. American master (bitter Robert Lang has calen this approach a step farther creating a sufference or in many most recommend see page 20) which when goes a certain autameters is uch as runther and now with points, will generate a crease pattern that touch or used to create such a have

However as with a usacia master of orbusque allows you to express you in an earth fewer transacts. Knowledge of tradations or gain if geometry while nor essential is a useful root to have a look disputal. The important point is to not allow useful total in it is a second be appeared to a write variety or influences.

A good example of this is the work to underst Floderer, see the Gallery), a trench wilder who has taken the ongant world by storm with the "enam ned" (regain) paper corpores and for the Aring to a appearance his work might seem to

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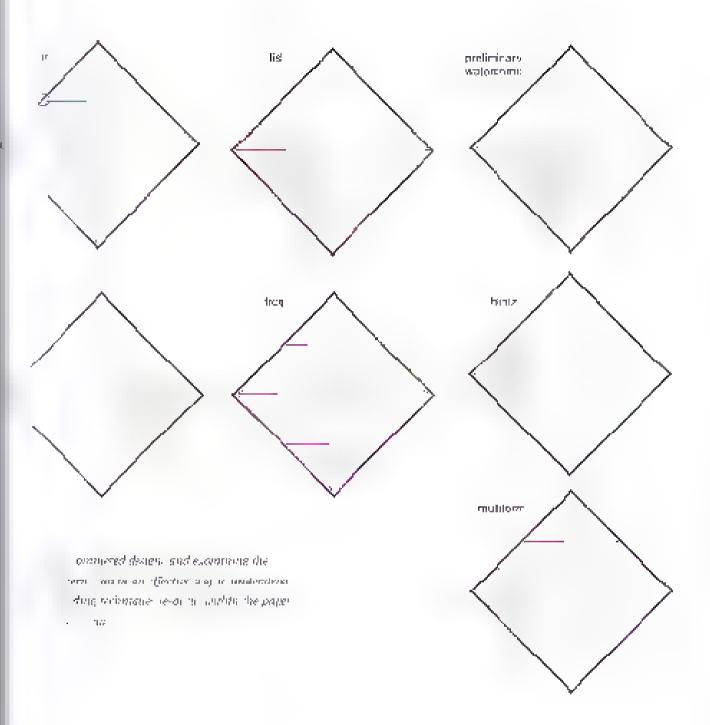
designs do indeed

is all amiliar

стеавь рацевыя

afret an





Creativity

other people's designs and developing a wide range of ingami skills and trefining ies. Others specialize an making large models at tiny ones. Some en ov the challer geniffold my 300 identical anits for an eraporate modular construction. However, to my mind, perhaps the most enjoyable and satisfying aspect of impairs a creating your own designs.

You don't need to be bressed with a deep verbul artistic ratent tarbough it protrably helps." But simply with a desire to iscover something hidden with the paper. There are a number of approactics proper use to rease argami. No one approach is necessarily better than another and a large of the wand. It as matter of finding a long a works.

Doodling

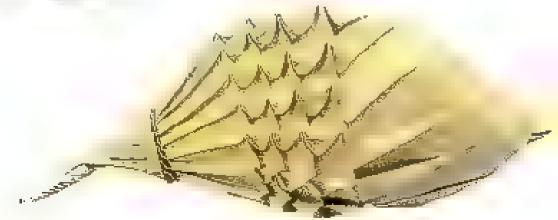
This is a finite like seeing faces in the riouds—you pley with the paper, following flaps, this way and that intil a subject begins to emerge, you can then begue to exemise a interpret control and discussion to your folding, tintil you have something that hopefully' mooks like the antended subject. Very often this approach works dear when you share often attempt the ease that is half finished. Never throw anything away is keep an "it reto" has a sorry all your doodles were often often you can revise them tatemend see a new idea in them.

Adapting

FyoLomake enough the iges to someone dans design, you may well come up with a toriginal model it is good namers to credit the source of your aspiration when you each or diagram the model Don't be surprised if an expenenced folder can shot your sources namediately!

Conceptual

Some rolders are able to take neiven subject analyze where it will need flaps, points, and so opmentationally work back to the or global against little requires an extensive knowledge of organifechniques and a certain way of thinking!



Engineering.

me i pes or subject tenta durmselves in obling it an inechanical injection inteak, by their of him strapes and configurations that you any know you are actably by using stream aniques. These designs are assally very togalar discusfying to fold in extension of dus recaches the item of computer software programs grammate projection in ease patterns.

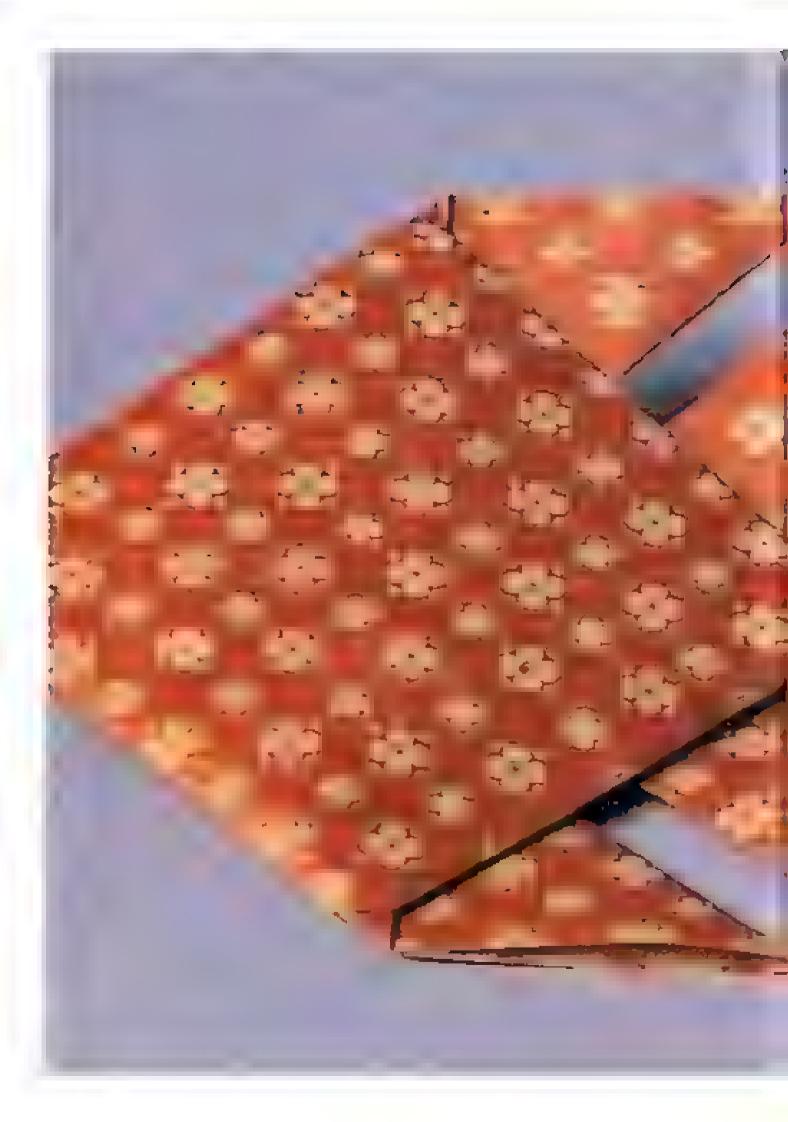
What makes a good design?

e griv other antionti, origanii devorees arpue. organize about what they believe to be the sample of originals, by the order portrales. gns that incorporate all the altivates if features of abject often taking several hundred steps to Eram For hear, accorago is key and liverything. acondary. Others, like myself, a miloare die essence of the subject as shaply as bly and present an atmost fear Jon Jike". esentation of the subject. Others enjoy making stere, modular designs, Some accept outting at of or gains others, the glue to hold models. here horsely that at these forms are valid. · r thruptace in the spectrum of paper art. a work you hasy through models and 2 you wil inevitably find your rastes and 🕶 🗝 es char gerius) as vour lastes change 🙉 aseas of life. The most invoortant shine is to and and accept the views of others leven if ike the trigant her produce You should ilose your eyes and ears to techniques, to every made as give them a characterant. cell help your own origam; to develop.

Finally

original and has potential you should it again and again, doking for the elegant totaling sequence and potential points for the creases, and generally refining in At this stage, try to produce diagrams in remind you how to fold it. These don't have to be wonderfor a ust enough to jop your memory if you don't fold it again for some weeks. Once you're happy with the model and sequence you can lake the latterto produce project liagrams to discribe to order to deep. Commuters are often used for this purpose and modern software can help you produce professional reads.

astly, don't be depressed if you discover that your model has already been discovered by another folder. This is inevitable since there are many householder. This is inevitable since there are many householder. The important thing is that you found it through your own offorts, As your experience grows, you listain to avoid areas that may be overworked fourth as elephants, penguins, and more that rings, and will so thy those obstates subjects and reclosing lies.



chnique

identity

= 1 Fer in (a. a) Lib is a sound knowledge of the fundamenta = 1 Fed to (a. a) Lib is a sound knowledge of the fundamenta * " * " * " * " * " * Lib is the begin of seer confident in * * * precise creases to a sterpie, diagrams, and to fold health = ambinous, a wide knowledge of existing designs and * Lib is the steer a paragway from traditional work and to

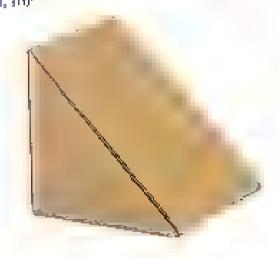
= mains designs ha are fairly simple nut they vil give you a

□ o dingrent highes. All he creases will have our ion points

□ flar, except for he final design, for

venture into the word of

griding s



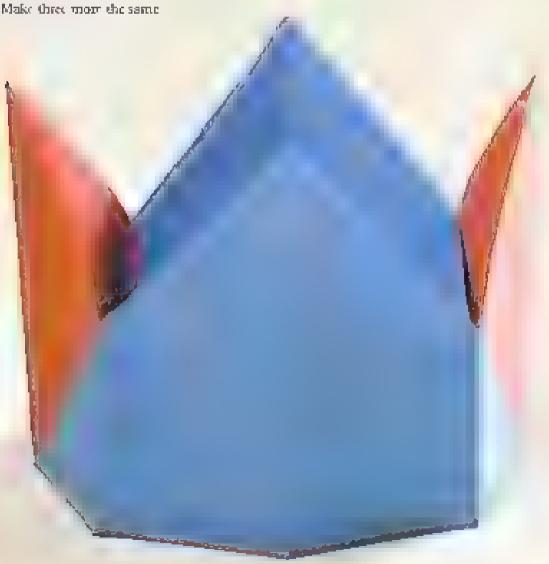
Octagonal Crown

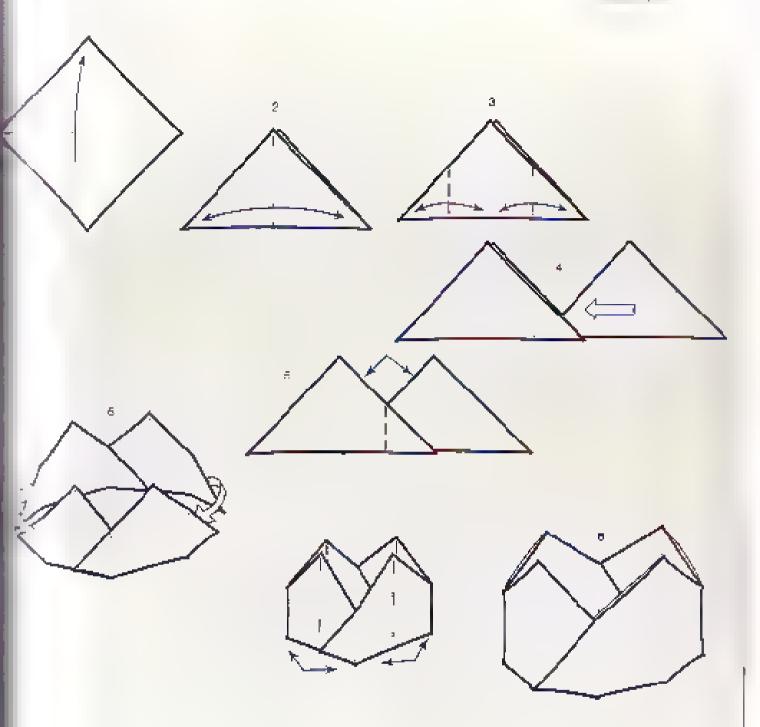
Design to Nick Bubinson

This design is an ideal protect and, within a practice accurate, near reasong. With a fiftle ingenuity, this apparently trapromising fold can be used to a connection of creature ways.

- Start with a square and fold one corner to topopposite owner.
- cold thin end of the first tolded edge to be other crease and unfold.
- 3 Enh. each end of the same edge to the center crease and unfold. This completes the inti-Make they more the same.

- 4 Slide one ann inside another so that the first set of verifical precises aveidap
- 5 Maker sure the creases overlap exactly and ford he sates at 90 (legrees to each other
- 6 Top another two sines in the same way and print for double cruts to each other.
- 7 form to long vertical remotes the original diagonals into moter and creases if our optical tare extagonal frown.
- 8 The completed grown





Creative challenge

- an avoid mailing the long treash in step 2.

 an crease a four sided grown that tolds
 ther very firmly. To do this, you need in make a

 sign mark to locate the center for step 3. A
 direct way might be to folk a "spare" unit to
- s. as a symplete for sonating the center

90-45-degree Set Square

Design by Nick Sphinsup

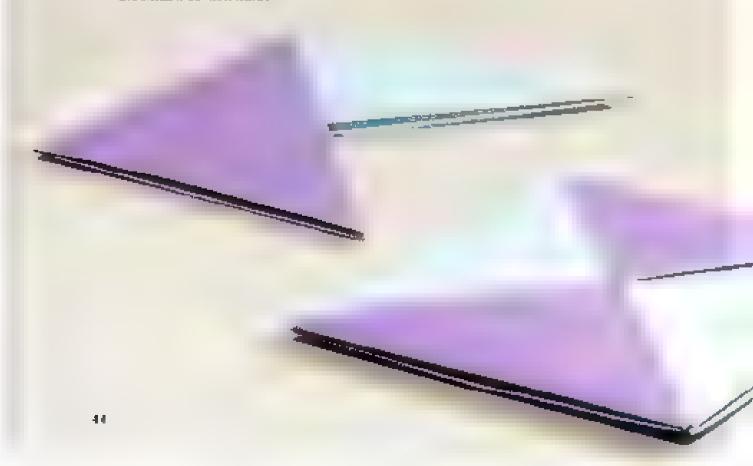
The Crown on page 42 is "open" in other words, its flaps are not lived closed by any folding techniques. This design has the same profile but the slaupe is closed by folding techniques. It will work from almost any rectangle of paper. The rosid- is a secondary with 90- and 45 degree corners with relative you can explore basic geometry and tessellation, the combination of shapes to form a tilea effect.

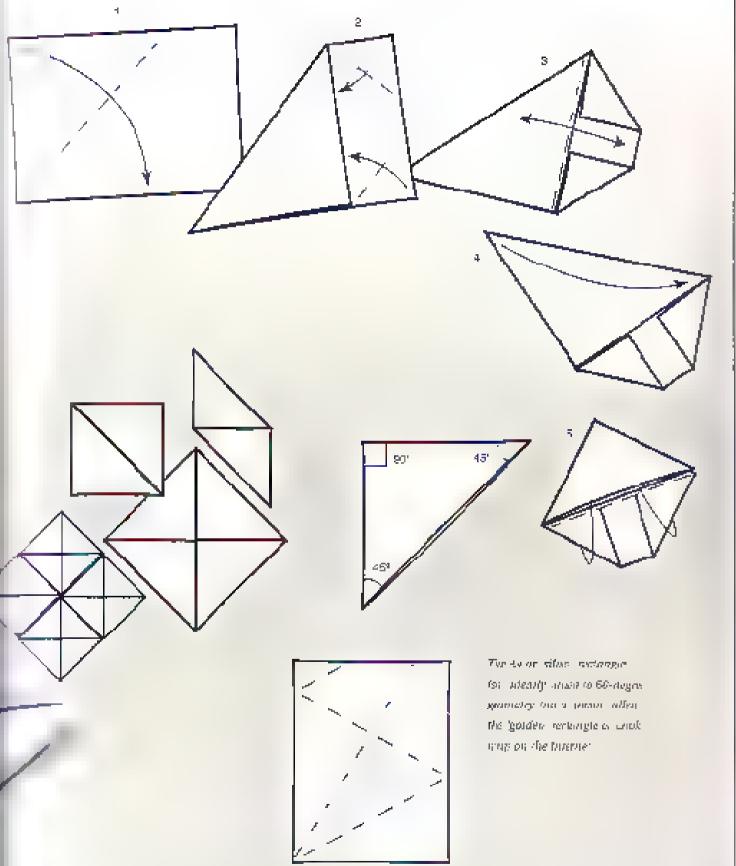
- Start with a sheet of A4 | 6" vir 11"/3 methes) and fold a short edge to lie along the longer edge.
- 2 Ford two corners to be along the inside rew odes:
- 8 void alling the raw edge, crease through and suffold
- 4 Ably the range mangle to but
- Open the pocket slightly and carefully tuck the smaller sertion inside

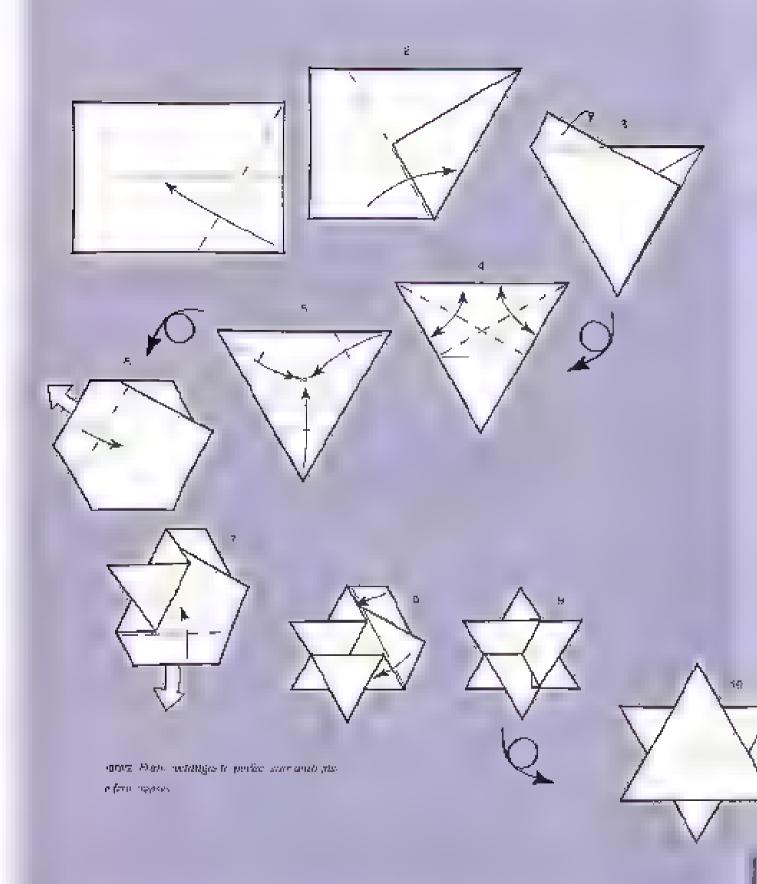
Creative challenge

Infoto the paper back to the very start and set if you can create the same result instrig the same creases but in a different order perhaps changing values to mountain and size werea. This deagn can also be used to make a very practical bookmark make sure you use decorative paper. Experiment to this the ideal size or starting paper.

he 'bonus' crease pattern-shows you all the creases you need to cream your won 10-60-90 degree set square. Ise the technique shown or nage 31 to create the initial angle, which starts at the bottom toft corner, then discover the acquerace has creates a locked, set aquare. As a cline, the shaded section stays on the table at the end.







A4 Star

Testgo by various

This design makes the of 60-degree gametry histend of the non-conventional 22.5-degree geometry. This gives an equilibrium blangle, from which it is a shart step to a six-pointed star.

Start with a sheet of 44, or similar recrangle dreased uphalf bold the lower right-corner to touch the center crease making sure the new crease starts at the top right-corner See page 34 for crore about geometry

- 2 Fold the bower left comer over lot lie along the folded edge.
- This gives us most of the change Poid die small flap over the edge underneath and suck to between the payers.
- 4 Turn the paper over Folditho adjacent edges together to obsert the angle of the corner Repeat with one other corner. These two

- creases establish the center or the triangle
- 5 Fold each of the corners in to the center. Turn the paper over
- The paper is now-very nearly a perfect hazagon. Fold the top left-edge is to the center of the triangle, allowing the point to "life out" from uniformeatly.
- 7 Repeat step 6 with be lower edge.
- 6 Finally, fold in the third section, acting the appearend underweath the layer of the first section to hold to in place.
- 3 The completed star.
- 0. Turn it over to reveal the "clean" side.

Creative challenge

Can you make this design éasily aroun a square? If not work out the optimum shape of the rectangle that you need

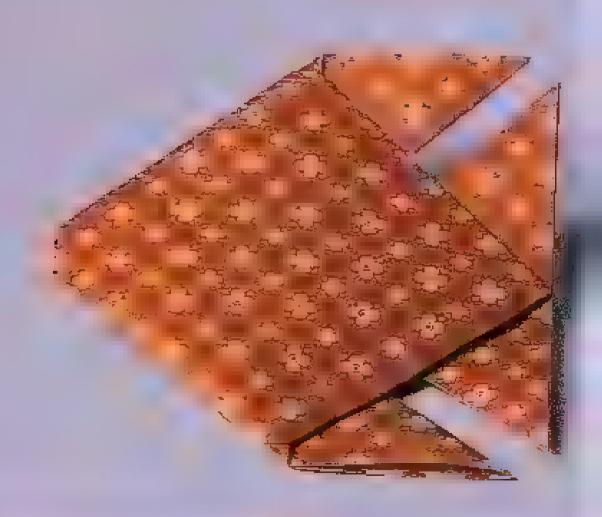


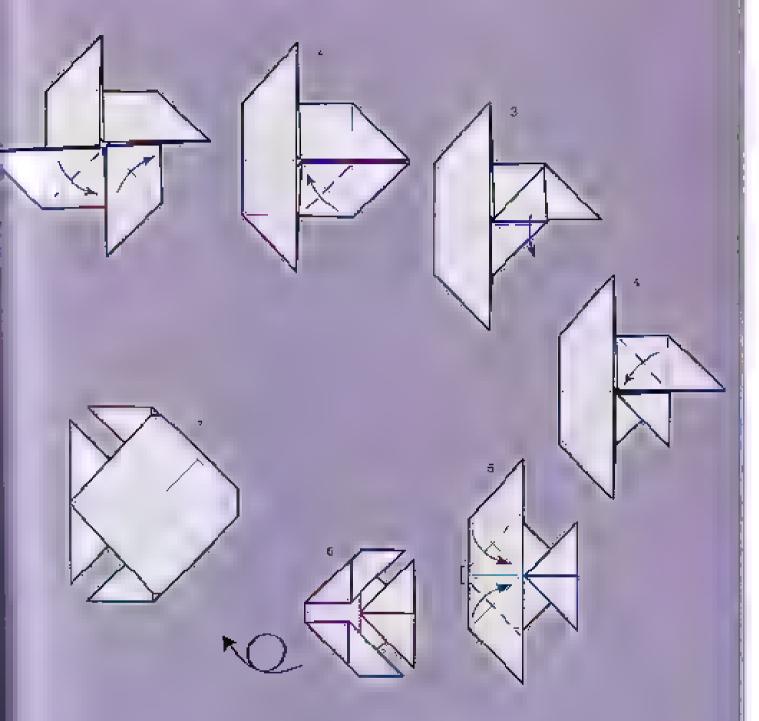
Multiform Fish

Design hydranous

The Multiform base leves up to its name when you want to our with its culture most butters. This sample fish is riade by adding only its creases to the base.

- Start with the Multiform base, opened ato the pinwheel position (see page 20). Swing over the lower two points so they face the other wa.
- 2 wild be bottom light corner to the terre-
- Ford the small triangular flap down,
- 4 Thus is the walf-finished tail Repeat on the wher ball.
- 5 Everyling a simple gap, fold both remaining fleps over The width of the gap is not importa.
- 6 This is the result.
- 7 Form the paper over for the copy ofered fish.





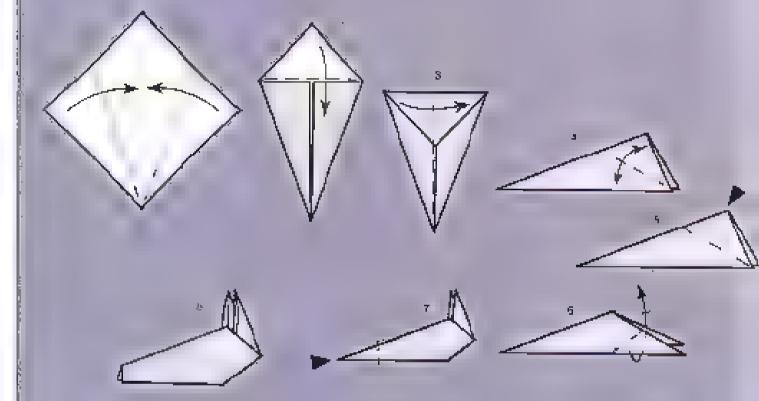
Creative challenge

For the file of fish in such a way day those are as few creases on the horly as possible. In the ros, but I need to unfold the fish and work our which theorems are essential than line alternative ways of folding to send non-essential creases.

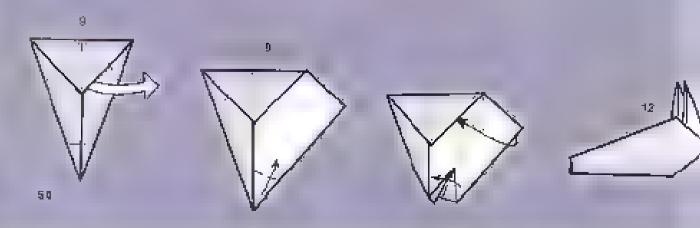
Horse's Head (a)

westgo by Owner Build.

Danid Briti an origina ar ist of extraordinary talent developed and design, He starts with a basic assign then adds a subtlebul anemating "lock" and limity, in the well-folding section are Horses Head In page 100 slinus noung qua sobre diree daheembaan shapeig to produce a sophisticana one engan, result



By altering the annount, judden sturing step — roo ranmake other type, of annount.



- Star with a square white face opward.
 cressed in half. Fold two sides to the center.
- Thus is the Kite base. Bold the top triangle down.
- 3 Fold to half from left to right.
- 4 Rotate the papertor dust vasition. Both the shortest edge to meet the topigest edge crease and unfold.
- 5 A ake an inside-inverse fold on the hornes, daing the creases made in the step 4.
- 6 Mountum-food both sharp points itside the head to form the ears
- 7 Make an institue-reverse fold on the opsesection to all with.
- Open the ears slightly for the completed head.

To lock the nose

ns rechnique is very aschil to preveni flaps.
- on coming orderir

 Open the finished model back a step 3, and open the right-hand flap.

- 10 Fold the base section over on the right-hand side on a
- 11 Refold the right-hand flap, tucking it over the small flap at the noseend as you fold the paper in half again. As form the ears.
- I the finisher head.



Tree

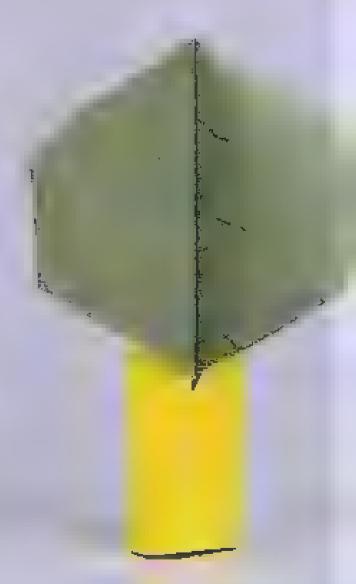
Resign by Mick Enhinson

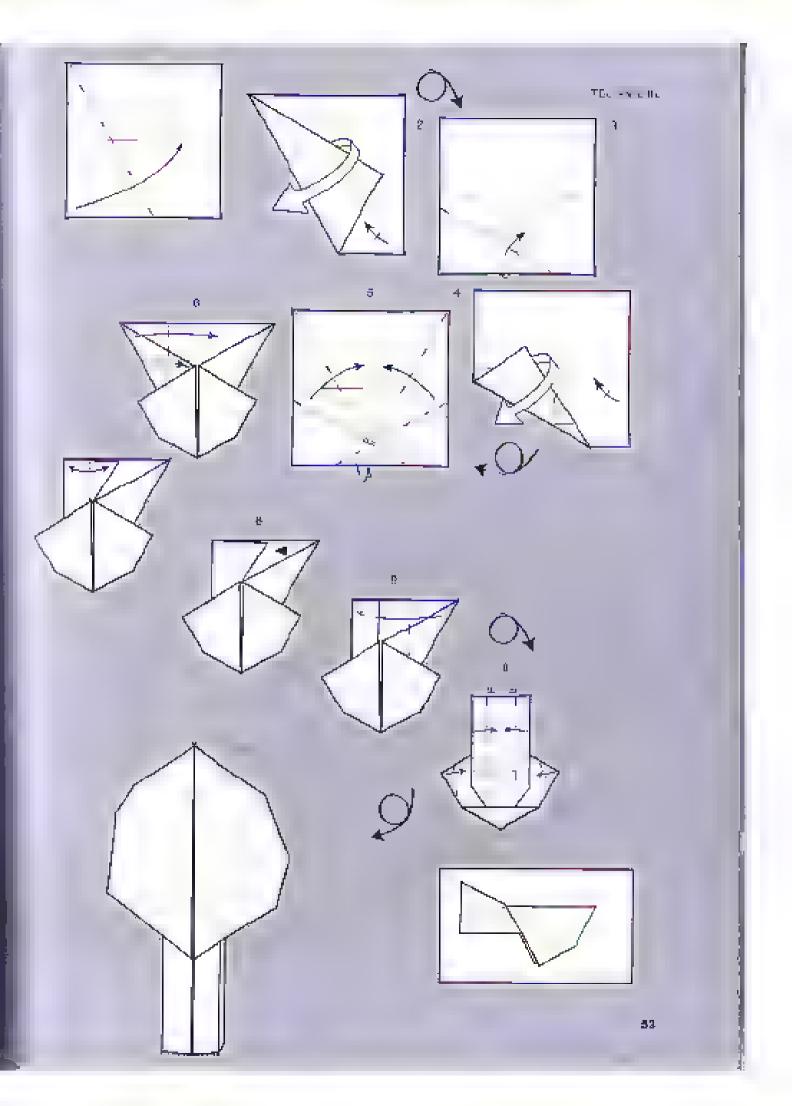
This design makes use of 60-degree geometry to create a natural form. There are very few origams designs like this, so it is an area ripe for explamation by you want to create truly original designs. The shaping creases at the end can be varied to produce a pariety of different profiles.

- Start with a square, folded in har note ways to be about our left former to toors the horizonoi crease, starting this fold at the top left corner.
- Jike this Phroid and reposit with the lower right corner
- 4 Unfold and repeat on the right hand side
- 4 Turn the paper over Using only existing the Areases, fold the mountain creases into the vertical center, wrapping the tower up of the paper incomean.
- For the left hand point to the right as in:
 as 190L easily go.
- 7 Ford the point back to the left, reasonand anfold.
- 8 Inside reverse-fold the point on the crease you have a some after somes a sudfaw porter.
- 9 Fold the tight-hand point into are porket that he has plus makes
- 10 Tub) die paper over. Shapt the sides of the tree these do not have to be symmetricall Fold the tree trunk in half on eduar side, and open halfway to form a stand
- 11 That over sor the completed tree.

Creative challenge

Starting from step 6. An you create a squid.or cuttlefish? The creases shown, will give you a clue as so now to form 6 at also t tental les at the from





Silver Half-Cube

Design by Nick Rebission

When folding geometriczhapes, it is important (o muke pour greuses verji sharp and not extend them farther than they went to go

- 1 Start with a sheet of Ad or shrifter ascranged and divide the short side into thirds (see page 14 roughdance). Fold the short edge to the loft hand side, delay direlled to crease only outside to eright hand third charge the page the move on the other side.
- 2 Fold the tower short edge to rough the creases trade in step Grease and aniold
- 3. Fording appear and of the short crease to touch the crease quarte or step 2. Crease and outfold.
- Then the paper over thefate the horizontal enesse only where shown, changing it to a valley from this side of the paper Add the small diagonal creases.
- Turn the paper over again.

 Match the invertibles

 in in the section is

 easier to fold the upper

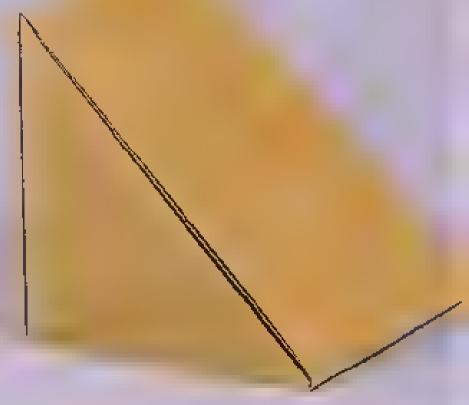
 controls down materities

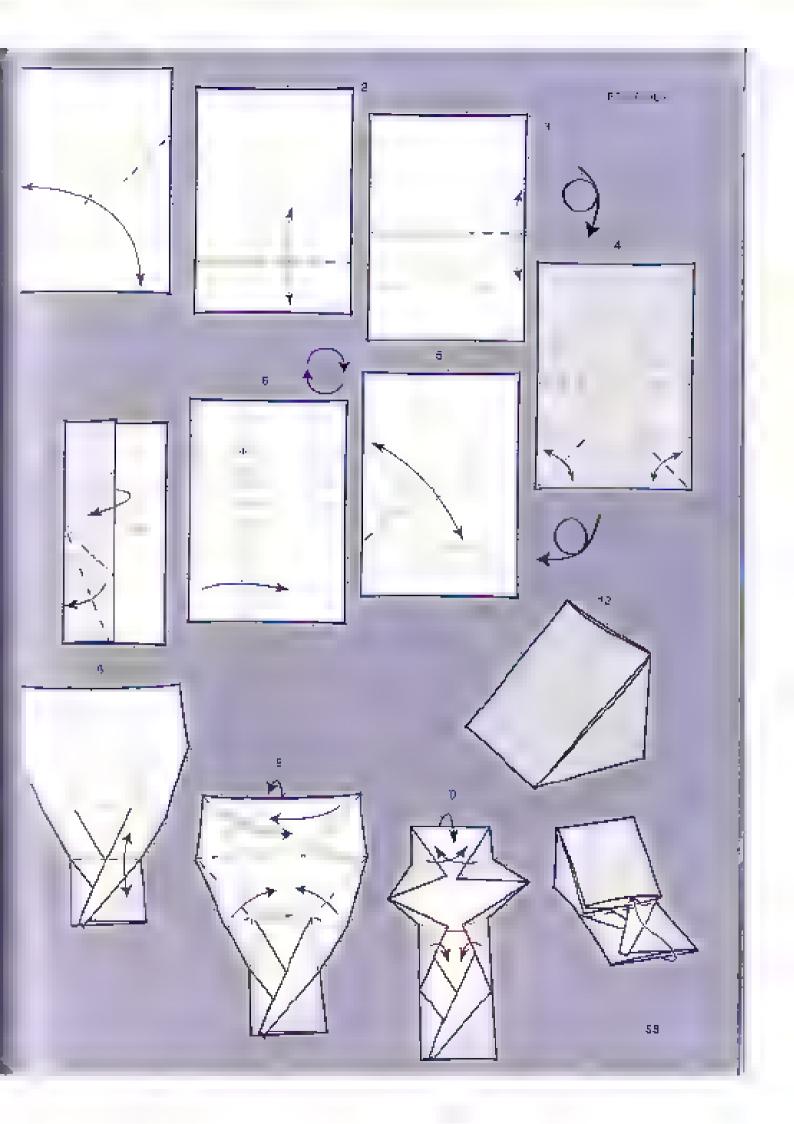
 the other way round.
- Rotate the paper through
 20 degrees and folk the
 10ft-hand side over
- 7 Fold the anountary crease to the outside edge, forming a new valler crease. The paper in order three dimensional from here onware.

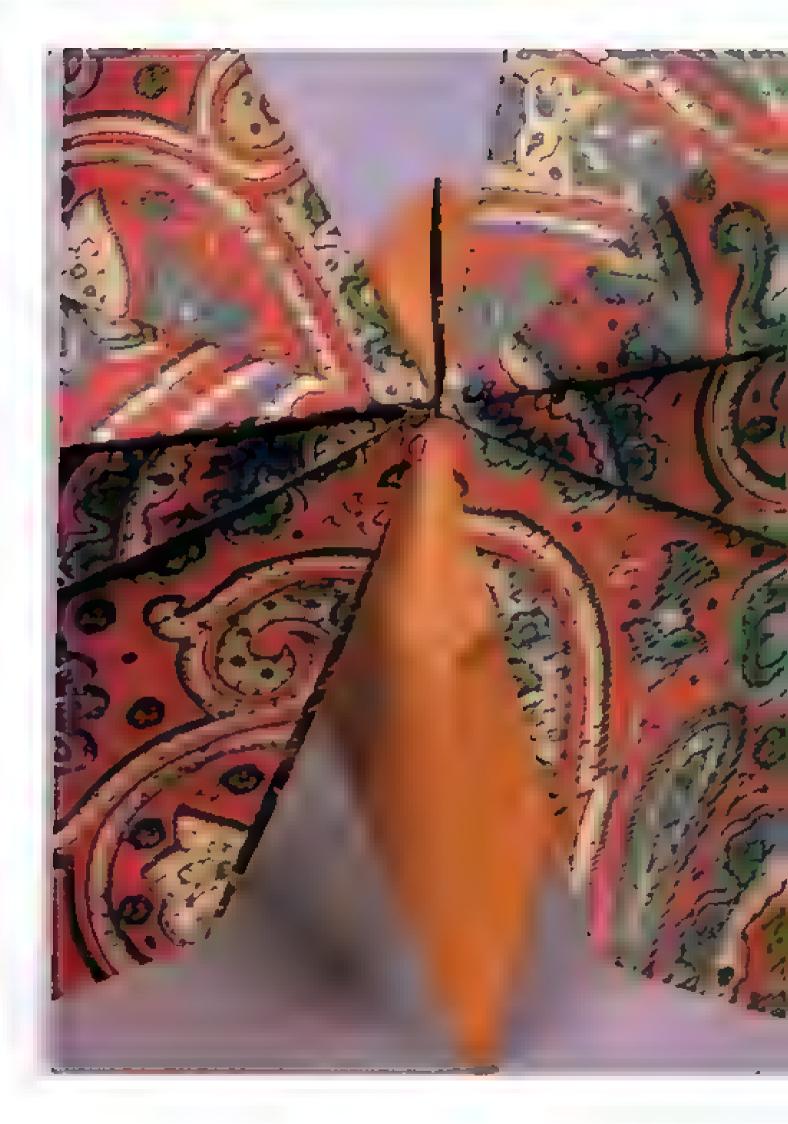
- 8 more A fast's entire ingline a side. This diagram shows the testif. Carefully make a stease where the raw edge meets the folded edge.
- по в теки по поделения в предоставления
- 10 How the design tooks as you progress,
- (i) When it has diagonally collapsed lifting halfcube shape, carefully case the ligp and the vol. no no ket in the all in many
- 12 The completed half-cube.

Creative chattenge

v k an ensimu von g anjo sized sectangle fitus g square? If that's inspetity, tain of daman and a sign of card stage) the crosse ficeded an step 8, but oslog a different technique?





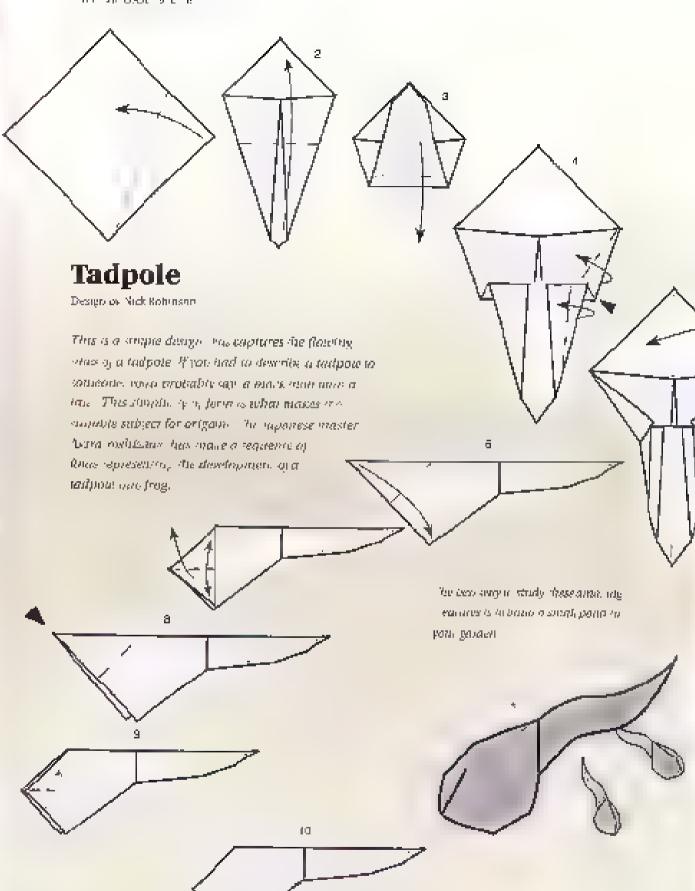


ractice

The creator of the design has book feel the to take offer a a gor, entered to extend your many feel to the fine subject that is ep will be provided and achieving the fine subject to the any of the design has book feel the to take offer a a gor, entered to take any of the designs. In shook, feel the to take offer a a gor, entered to take any of the designs and ways come back and firms that in order is the to take offer as a gor, entered to take offer as a gor.

If you we respect their work hopefully we can also end and by lift in t

50



stul with a square creased along a diagonal hold a content outs. You were loading a site Base, but move the corner toward you a little mong the central diagonal hefore creasing. Fold the opposite corner 11:0 thest the first one.

- 2 roud the "pointed" and to the opposite former.
- 3 Legova a armalt gapy then Tobilius Raip block down again.
- 4 This stem is a limbe difficult. Staylogy four ang the latiflap as shown. As the fold meets the piest, put your larger inside the small nocker and easy it usued while making the other valley crease. Repeating the other valley crease. Repeating the other
- This is the result. Next time, stop 4 will be easier to perform? Fold the model in hall along an existing trease.
- Fold the francemer to touch the bottom corner

- Ford the smoul triangle in hort and open our the last two steps
- 9 Push in the corner point so it des between the other lavers. This move is known as an "inside reverse total.
- 9 Refold the small crease made in step 7 but inside the model. This locks the paper tagether.
- 10 Round the body with two small mountain folds.
- c1 Open the body curve the tail (by wrapping it around your finger and pressing family).
 and the model is complete.

Creative challenge

The first four steps can be adjusted to atten the proportions of the tadpote. See if you can produce a series of folds showing now the adpote develops. Can you design a model with back legs?

Sheep

Design og Nick Robanson

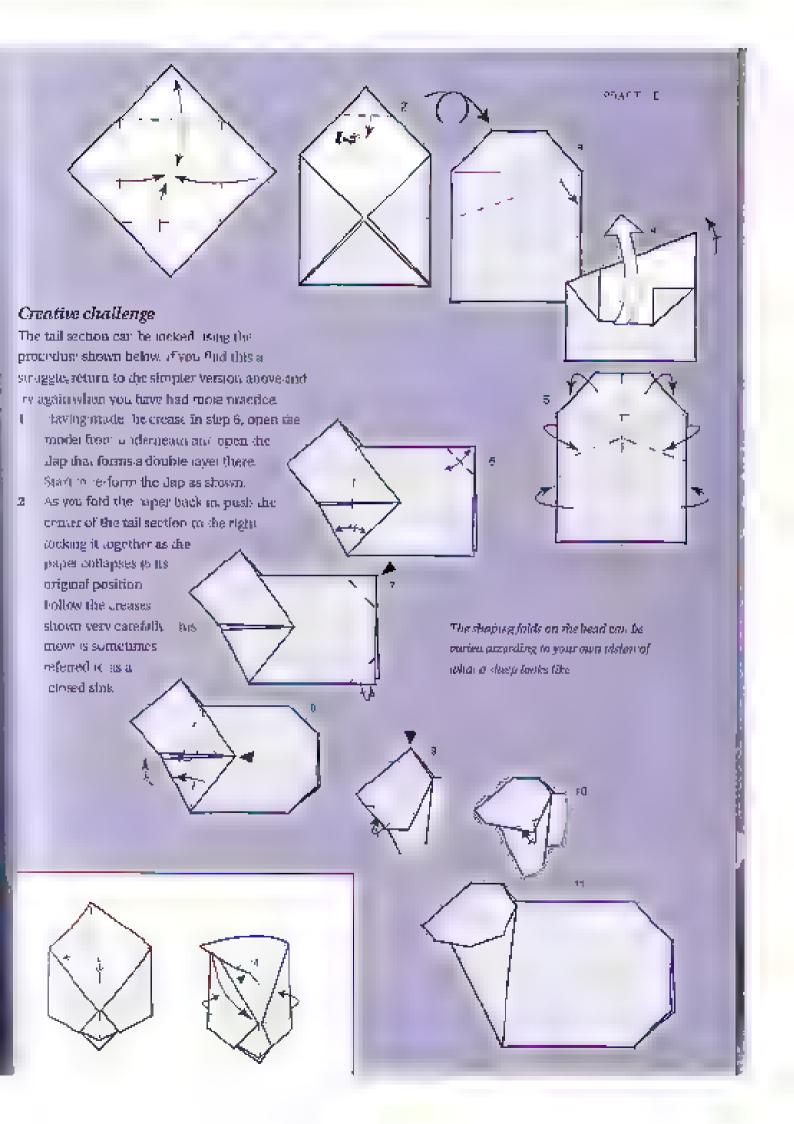
Like a radpole a sheep has a pather ragge outline a round body, with a head or one end! This type of arbject allow the creator wonderful freedom to where a fresh failting mathon, views the method warter on hused on a simple dog design that I already had filed away in my "in propries" has Step 5 is a move that angley. The head and had lathon form the head step 8 annually require you to use your "it me "and step 8 annually require you to use your "it me "and are gain to be made by eye." They become easter with macha!

- Start with a square white side up and prease both diagonals. Fold if reconners to the dentes, fold the tourth corner in crease and uncod.
- 2 Fold the original corner in α is point about ³×ε is the distance to die crease. Then the paper over
- 3 Fold the upper right edge to meet the vertical edge, (at only crease the left-hand side of the paper. The domed lines show where the crease rould have extended.
- Crease and a Mord, Repeat on the other side.
- 5 You now have all the chapses you need to form noth the head and the body unode flowing more. Carefully follow the creases shown (see magrators for group in

- Outfold and reford this step unto you are quite clear about what is happening.

 Emply the proper
- 6 Fold the corrier of the fall over recase and writood. Fold the appeartisp gives 50 me the maideredge means the outside edge, mease, and autoid. Repeat op the flap behind.
- 7 Inside-reverse the tail content Bold the twolower corners as to match.
- 8 Now take a deep breath. Fold the lower saver at the from to the left. At the same time, fold the base of the head farther as so that at forms as light angle to the edge anderness. Repeat to the d.
- B tas is (should be) the jest it, rold the lower part of the jaws indemeath from and back.

 Push in the top of the head lastide-reverse and as you did with the stil.
- 10 an one ritore-shaping fold on the head, from and back
- 11 in imported sneen



Tree Bear

maight by Nacl-Robinston.

Originin suit natea for its numer, but there most defluintly to a fun side to paper follows: This design is part of a stries I made, representing insulations take such as the Mexican on a Bicycle" using rapes, intually I made the wholy thing from a single square but the resulting composity secures one of character with the simple maure of the folia to I developed a first from two shoots of paper and. Gually, from duties, it works better if we use slightly smaller paper than asym.

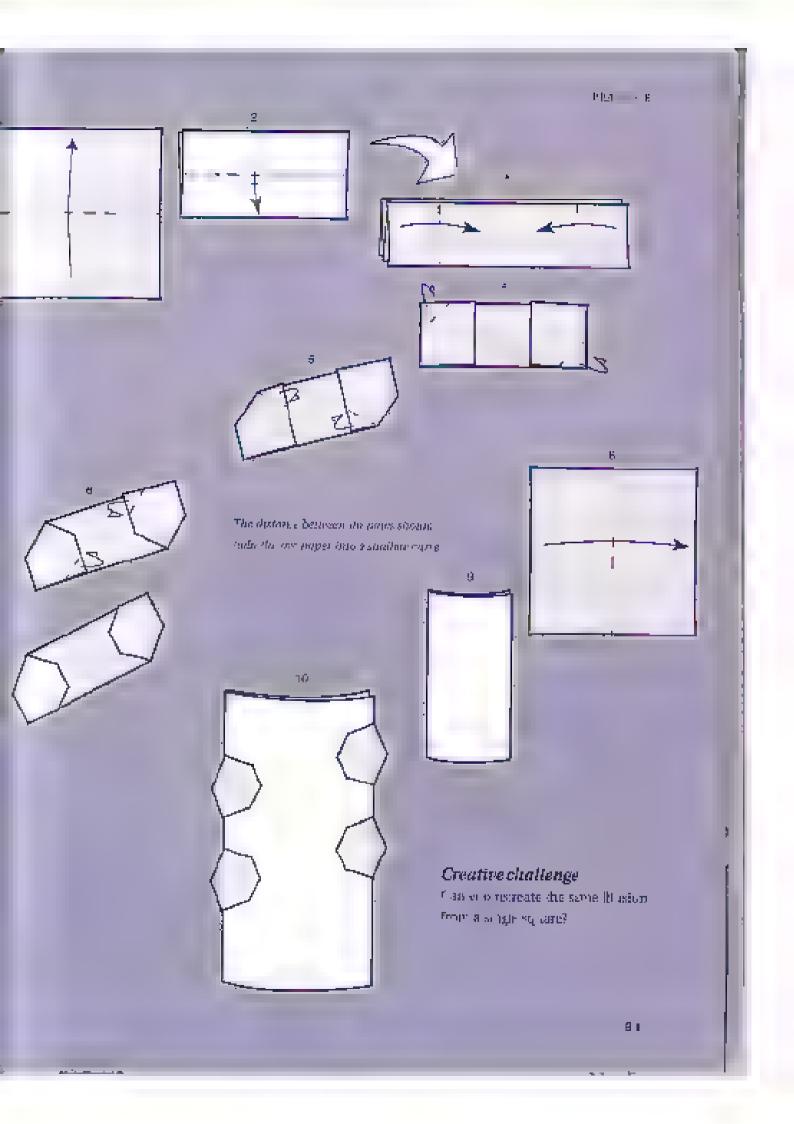
The bear's paws

- Sum with a square of crusp paper colored side up. Foldin Funfairum bottom to top
- 2 Fold the top gay edge down on either sign
- 3 Fold-eithoriside in avigna OB 1, so that the amount folded in isabout the same as the gap* refuse the center. Ise vous give judgment, the exact distance isn't certical.
- Fold bottom: Fight and top-left engages behind.
- 5 littings off two of vie inside corners as well.
- Finally found of the temping comes. The short edges on the leside should to about the arms length
- " A dike will the neigh-

The thee

- 8 Start with a signary the same size as used for the pows and fold around from left to right
- 9 Cently curve the paper and tuck it misido each of the bears pains
- 10 Stide the paws up and down the tree until they look difetile.





Mountains

Besign on Nick Roth Issuer

This design then the two cutors of the paper to depict the subject of well as the second shape I can this approach "Pointing with Paper." See "Gone Fishing on page 92 for another example. After step 9, you can choose beseen that different routes.

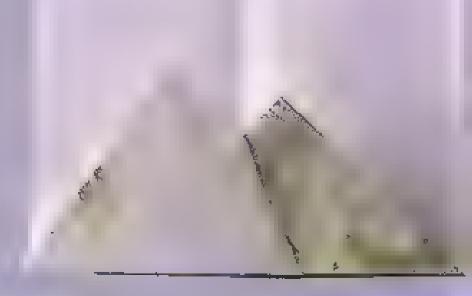
- Start with a square, white side upward, foul in each arom (cf) to right
- 2 Fold the top edge to talf, marking no rational source.
- 3 Take the forded edge route pinch-mark crease, and unfold
- 4 Folia the remonver at 45 degrees stanting at the same ainclimant. Crease and amount.
- Make an inside-reverse fold using the mass.
- 6 Fold the two corners on the left to meet the vertical cross (see diagram 7 for guidance).
- Swing the upper rayer to the reft, carefully squashing the small mangle of the reg
- 8 Fold the top references over to the vertical center
- 9 Make a crease to the op with the triwer edge of the flap folded over in step 8.

The corved option

- 10 Fold the ropinght corner over between the two tocations shows in page 66. Tuck it under the rayer of paper.
- 11 Iteford the rower flap upwart.
- Cently part the paper feward you on other side.
- 12 in liver for zer completed variation.

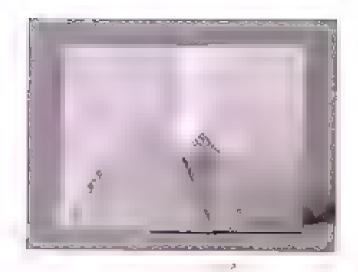
The straight option

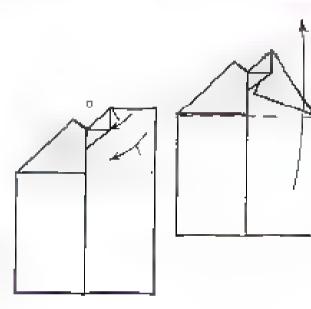
- 14 Turn the paper around to make the addowing suppression Fold the lower-left corner over to recet a colored edge
- 15 Fold over along the apperedge that you folded asstep 10
- 16 ang existing larger to be two again-angled comers to make the Model direct-dimensional
- Too completed variation is shown one page 66.

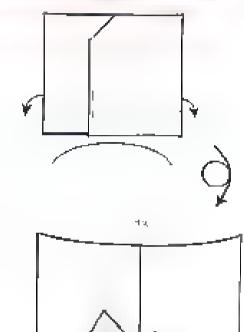


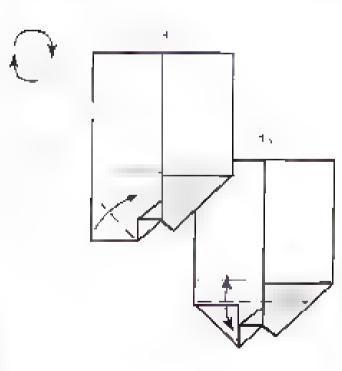
Nountains con anned

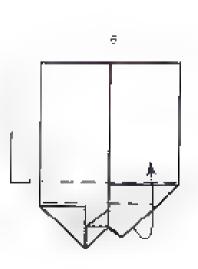
sati esti konsi ino she desiga elang ara differen matas in dien bosh ara ranipati kuen

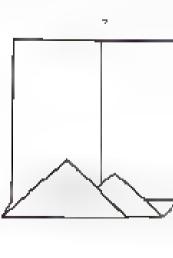












The Locked Glider

is 50

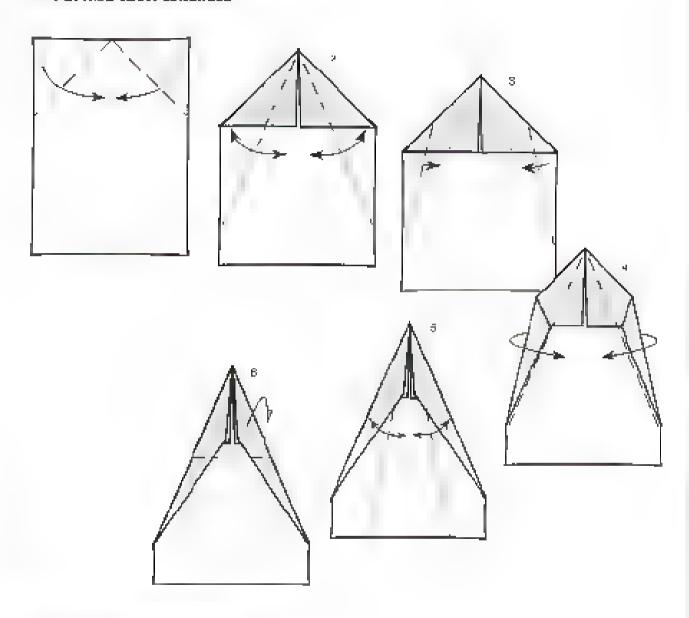
n ig name e in growin.
I have le nellen alle eus hybride in name e name

- I the second of the second of
- 2 as 0.0 9 100 0 0 9 as 3 0 0 0
- 3 Suring a conservation observation of the suring state of the
- 4 do not not got a not to her to

- 3 Tak is a product d_e to be come to an interest ages and assert of parket.
- 6 a tiple the second to the property control has the specific or on all waves the forest control of the control of the second to the second of the second
- 7 in agencies and the texturp point of as is a first as a first adoption on the
- a etail and nomine sabar.
- M. M. Maria, "Care that the above the new York for the solution of the Department of the end of the property."
- (ii) the between the summary through a record of the property of the sum o
- 12 o new and o grows was daughed mass, he comprise mode.

4 Charletines are

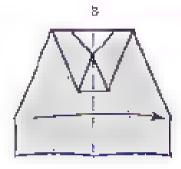
The Locked Gilder continued

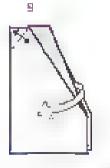


Paper displactes are 50th to 20 lists with the Chipmen's status, approaches below out to subject



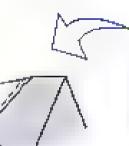




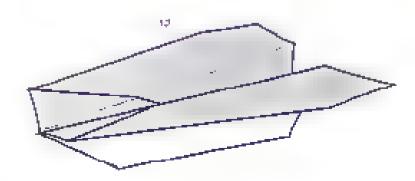


reative challenge

her rough about the paper hand, there are three things to order the specifiar which you about it the angle as buch you raunch it is never in from straight as rough and finally he angle of the whigs repartive to emody Each of these will have an effect on the flight stranderistics. After one of them and see what for it has in his oner you have all done.







Butterfly

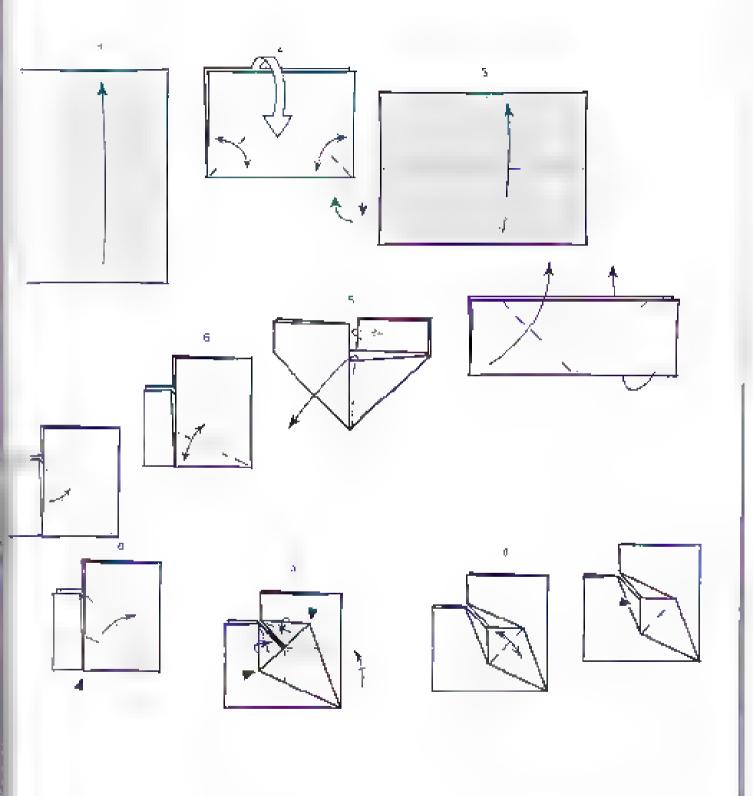
Design by Nick Rahlpson.

Butterflies are a very popular subject in origans, because they own be simplified to a righ degree jet still behavior recognicable to addition, they make good use of heightly roloned paper and are perfect for impuring. This design takes elements from a analytical Frog base, but whitses the extra paper of an Anthony to counte range wings.

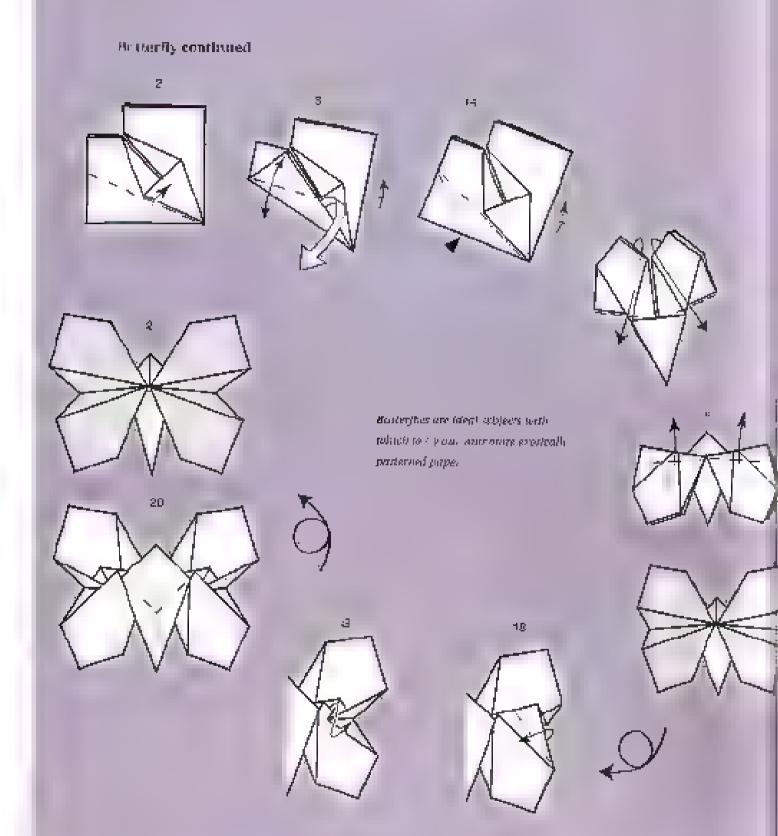
- See will a sheer of set of an interrectangle.
 Food the two short engas logother.
- 2 Make two short creases is taxing the raw edge to the fuluer edge little easier than the other way tound (by train see). Ipon the haper out
- 9 Rotate the paper doorigh 90 degrees. Fold in half the "other" way.
- 4 Total the reformand lower origin up to meet the vertical crease. Turn the haper over and repeat on the other's he is have drewn this second fold as a mountain told which saves me from maying an ixtra diagram.
- 5 Put your fingers into the inner packet and spen the sides out flerening on the other axis in some additional body see safey quarticase.
- 6 This shows a new pre-creases that will make rise easier raterion. Fold the cover edge to the crease arm infold again.
- 7 cold the vertical raw edges to the same chase, but extend the crease only halfway down
- 8 Squash fold the lower edge on the edge agencies.
- 9 Old earth pay edge change have paper ander the triangular flap, Repeat the rasi sequence of folds on the other side.



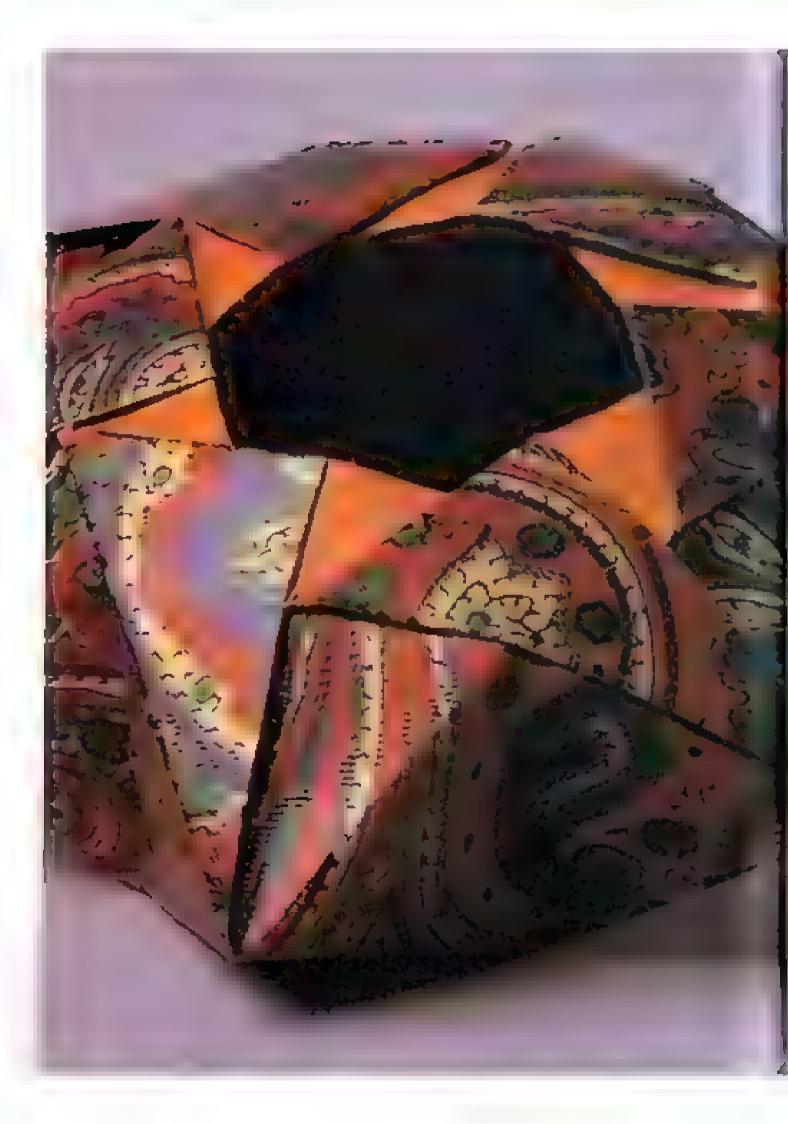
- 10 This is the result. Aid in stoat to angular flat backward and covered.
- 11 Now sink the flat aisine
- 12 Hold the lower edge " He continues as a
- 18 rold heliomer out starting at the reft hand contrar and extending the crease down in the very control of the paper. Make this crease and their outer steps 12 and 12.
- 14 Represe fold the haper Laward then paritall tack—ut again using the thease made in steps 2 and 13. This technique is known as a mimp. Repeal to the other wing.
- 15 Work Both wings down along the line of the folded edge
- 10 vota drem back up again, surrang at die center à la slight angle.
- 17 his should be the result.
- 18 rold the upper ayer over allowing the layer anderness the which own to stretch into a new position. The end result should look near a td, affect a few attempts, with
- 19 Pull our the pricket from camerneasts and (gr), the flap into it.
- 20 Regnatithe last two steps on the other sting.
- 21 or sampleted aurreras.



enumerd next page







Practical Folds

Tight think hald esigning or game for provided use would inhibit the case Tilere are for a readive options open to you but this is it the case Tilere are for probably three ingain conductes and power than any line type of them is sub-ly or distinctly different from the others. In the west of England them is even a small group of folders known as the british area.

rhough I stempting oncentrate only on the national as year of the small en year are making a ractical foods. It is mattas in up attant to a his me, and the visual effect People will assa y age no notice of any container no matter now practical it may be Always's rive to ach evolutional it will be a made of creases and in a product elegant

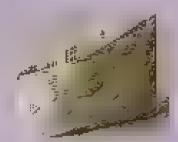
oths to design problems

Popcorn/Chip Bag

Besagn by Mick Rubinson.

Paper is perfaitly suited to making quick and easy containers of all kinds. Here is one you can use to Sure condy, popours, chips, and many other things Is makes use of the trauses for the Diamond Base.

- 1 Start with a square colored side down, ward.
 Folio at an from one corner to the opposite corner to form a diagonal.
- 2 York one suit to the contral crease.
- 3: Fold the flap over once more, using the original diagonal crease
- 4 litter ide gagen overlagd copest step 2.
- 5 Fold the colored riangular section over the white flap, crease, and anfolo.
- 5. Unfold the white flags.
- 7 Relold the triangular section to the righ
- 8 Tuck the loose flap carefully into the portler of the triangular section.
- 9 Fold the sharp corner to the onposite corner taxose, and sanfold.
- 10 Fold on the same crosse, out wok the point unside the pocket
- 11 Turn we paper around and open the pocket at the longest edge.

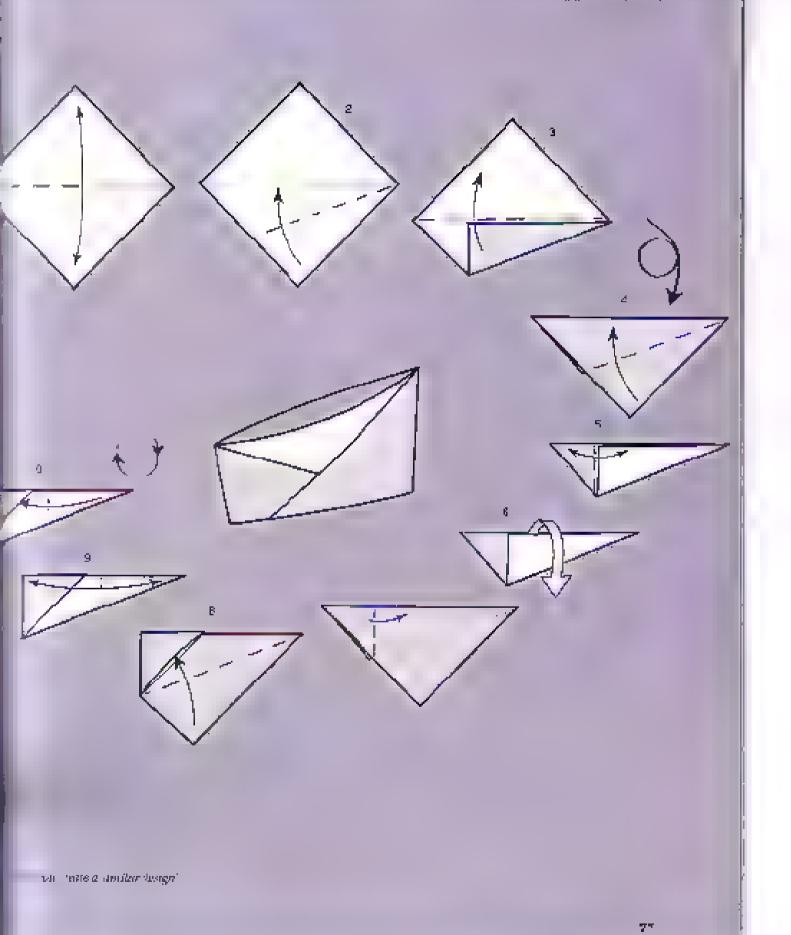


Voit cap grifekt, make this design from a three of geographyes

Helpfid hint

As size 0. your can unfold to step 7 and form an inside-reverse fold by alterting some of the creases as slower. The loose white somes can be nacked one and new morganic ports. This locks she paper securely in place and the whole section can now be carefully tocked acto the colored triangular pocket. As hough has as a slightly more difficult exquence at makes the hag even less likely to anfold when a callet.





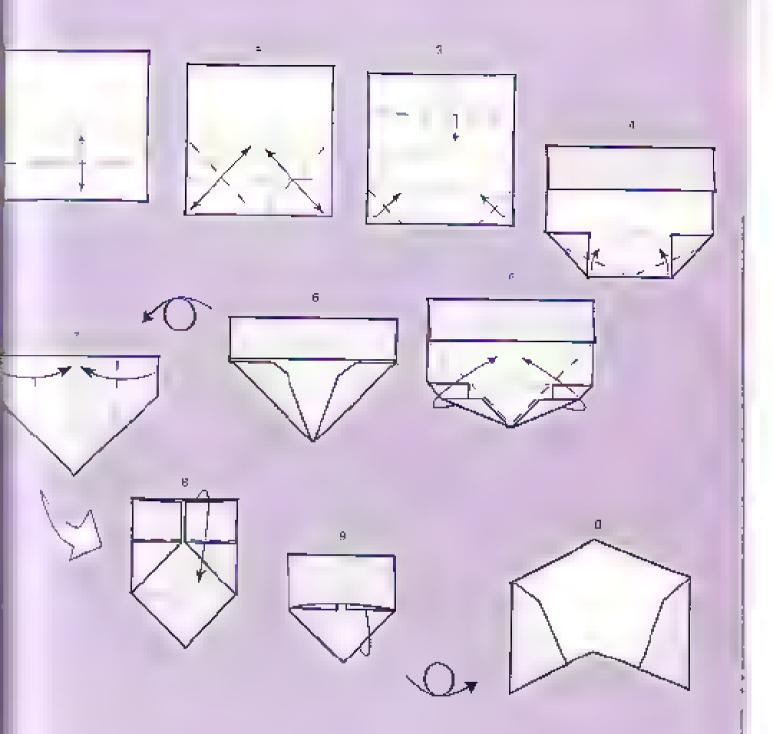
Wallet

It is anways weful to be able to make waltets of any kind. Some waltets have a slightly more companyable pulling supplience and many different popkets, but this one has a pocket on each side and a perfect for damps, credit cards, and so forth. You'd need a smare of paper with sides just over four times as long as the imagest side of the cards you intent to store. If you're going to keep the wallet in your pocket, you'll need paper that can withstima the wait and text.

- both ways. Fold the lowest edge to the center exerce, and instruct
- 2 Fold both lower corners to the center, clease, and tennote

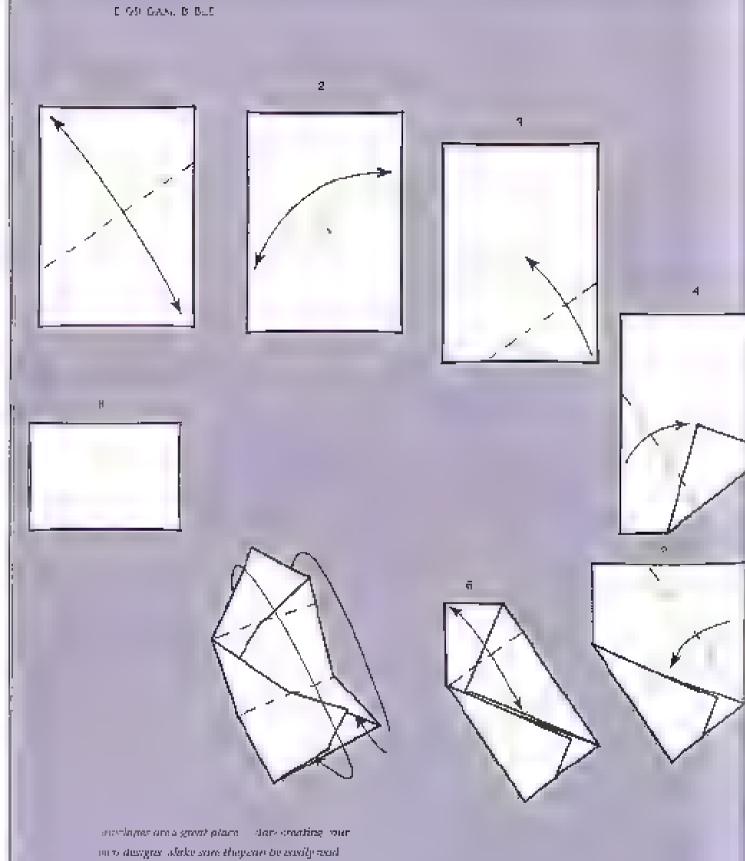
- Bold doth lower country to use nearest intersection of creases. Fold the apper edge.
- 5 Reford the rower Paps on existing crosses
- This is the result. Turn the paper over.
- Fold hellefr and right-hand-ordges to the protect content crease.
- B: Fold the upper section over on-an
- Open the 'pockor' slightly and tuck the awer triangle into it
- 10 Turn over for the completed wallet





Creative challenge

The angle charge arbieved of step 4 is purely for incorative purmoses—anyon work out now a fold the openso that the purks runs from the billion content of the audioi to the outer or ups?



anahom nafonling

Daisy's envelope

🕳 lie on Gold Robinston

End in what somely devoted to envelopes willed End involve and repetition of allenge to paper ders. The aim is sample, to fold a tetter in such a say that it can be pested like an envelope and many usity come undone, This allows you a wide range of anxive upways although, as ever simple, elegant lesigns are the arm of most creative folders. This ways negative wet.

- Start with same at AA or similar remangle Fold the bottom right corner to meet the top refut reaso and aufold.
- 2 Fold one end of Juisticesso to the other and make Ashadi proof made of locate the center of the line
- 3 Fold the hopform right corner to the center.
- Fold the loft-hand end of the recase to line ten let
- 5 Represented the right mand and of the crease.
- Fold the top references to the center, crease are after.

- 7 Fold along the first crease you made, cacking the cup flap into two nockers of the box,our flap, ode,at either end.
- 8 The completed envelope.

Creative challenge

Can you create your own envelope? I should be secure to the the contents can't easily be read without unfolding and should withstend the rigors of the postal service. If so, please send me afterer using it, addressed one the publishers



Paulo's Dish

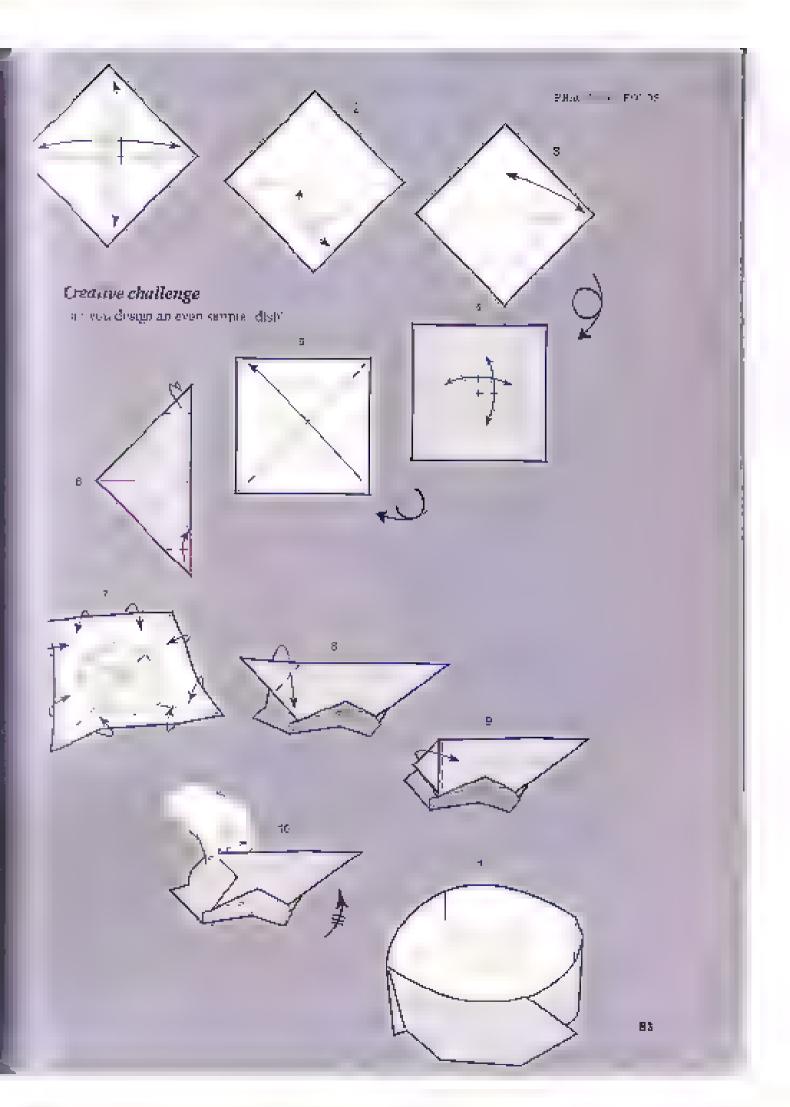
Besägin by Nick Rubinistin.

Throughout say creating original life, I keep returning to dishes they aim is to create the antimate simple dish, which holds its shope tising the tension of the paper and nothing else. This design is the closust. Italies one is reaching that you and I currently cannot think of a simple "both." The design annied after and dedicated to, my good friend Paulo, Mulatinha, who has slowe so much to promote the appreciation of elegane and beautiful origins.

- Start with a square, where side upward. Crease both diagonals.
- 2 Fold the lower right side to be along the horizontal diagonal. Crease only from the vertical diagonal back to where an incaginary halfway crease would much in
- 3 Rotate the paper 90 degrees clockwise and repeat. Each time you add a crease, it forms a rocation for the next one. Repear on all form sides. Then repeat the same steps 1-3, folding in the appears of a conor.
- The result should be an octagonal crease pattern to the cepter of the paper ideally the creases should extend to farther than necessary, by you our couploss to their each time you fold the design
- 5 Fold in half along a magonal
- B. Folk, the bottom carner to

- meet the intersection of creases clease and unfold. Repeat on the other corner from the other side. Open the paper and make the same two folds along the ouner diagonal.
- 7 Open the paper and begin to form a factoral three-dimensional shape by placifing the corners angelier
- Looking from the side, full two layers over a he corner on an exasting arease
- 9 Fold the triangular flap over and message paper dat through all the layers. Repeat on the tree menanting corners
- 10 Ising your fargers and thumbs, encounter the dish auto a circular-shape
- 11. The completed cish





CD Cover

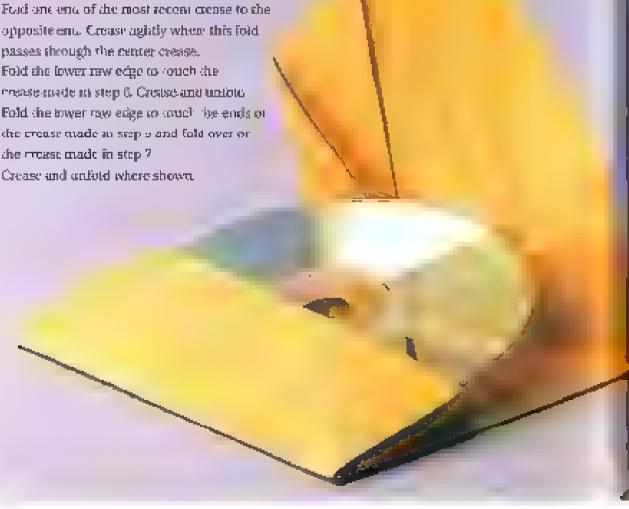
Design ov ofick Enhances

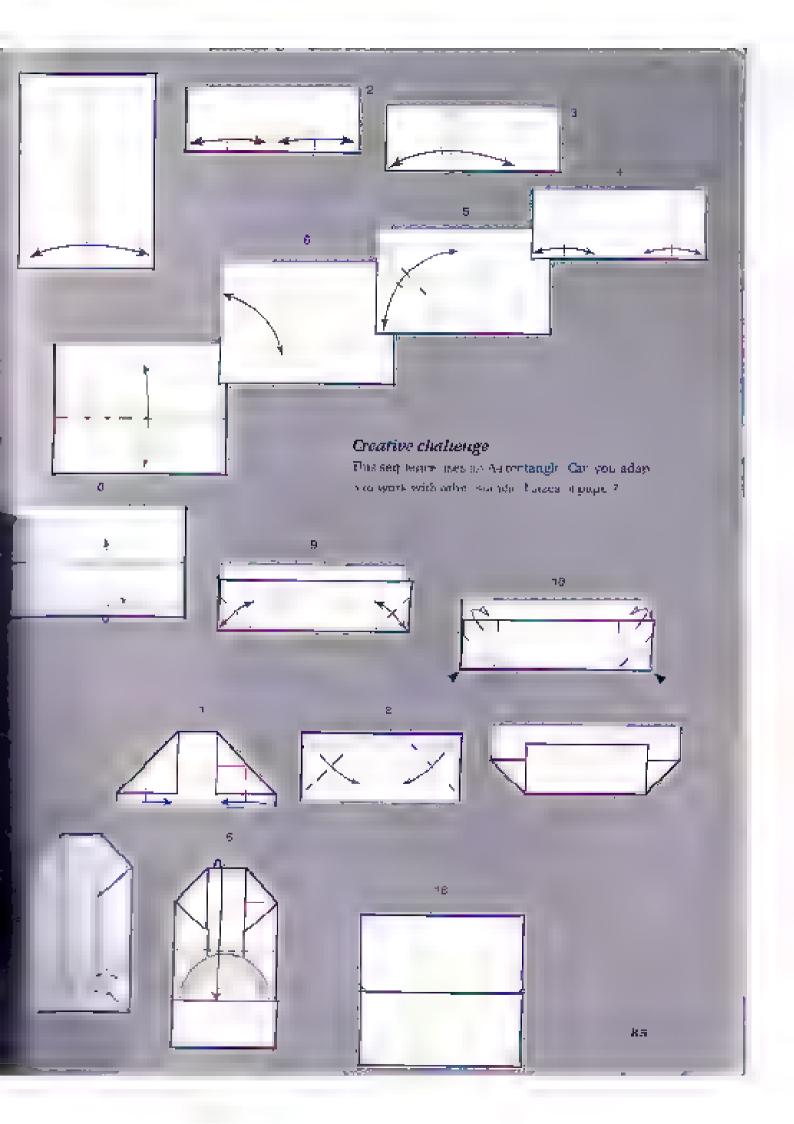
This design is a great opportunity to practice proescasing. The technique annother making a number of precisely located courses, unfolding each time, and using the creases later in the sequence to create the moder etsety.

- Start with a sheet of A4 and fold u in half, long edge to long edge. Crease arto imfolia-
- Crease the quarter marks
- 2 Poid each ou side conser or he anthest. quarrer mark. These creases extend at the way.
- 4 Fold carb outside comento the clease made in step 3: These creases extend all the way.
- 5 Fold the lower edge to the vertical center. crease, creasing only where shown. Repear on áire sone stue.
- 6 Food one end of the most recent crease to the opposite end. Crease aghtly where this fold.
- Fold the lower raw edge to rough the crease made in step 6. Crease and unious
- Fold the tower raw edge to touch the ends or the crease made in step 5 and fold over or the mease made in step 7

84

- 10 Swive the paper inside on both sides, There creases are atteauty to plane.
- 11 This is the result.
- 12 Now you must work on the or remend of the paper. Poud the two corresponding je albogi. емьинд атеавея
- 13 and the adestinations the existing crosses.
- 14 Pall the paper our and allow the side fians. tick madernesse on eather side.
- 15 Insert the CD and fold the top edge down. ucking and the pocket
- 18 The completer COlomber



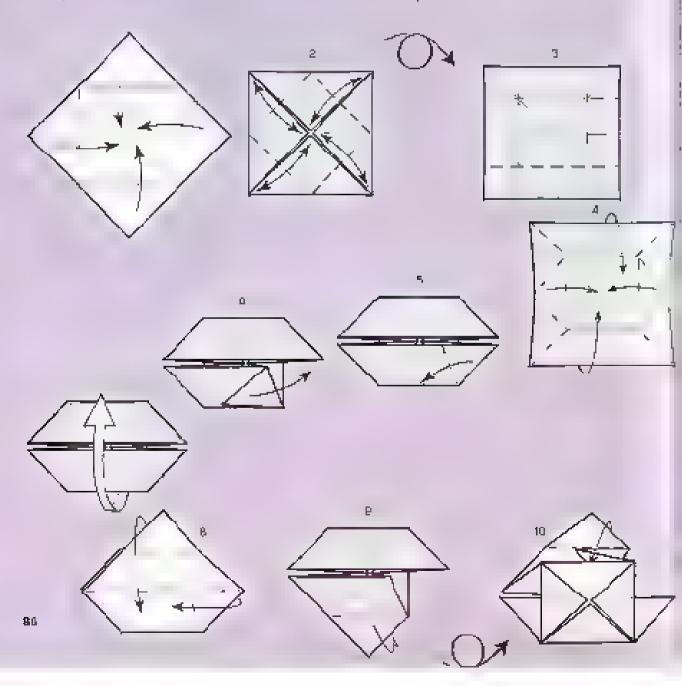


Container

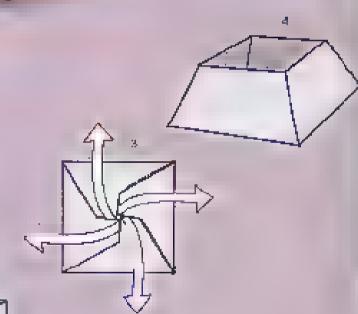
Besign by Nick Robinson

Roses and containers are a favorite subject for containers are a favorite subject for containers one nation of you can find a reclimague that gives one nation older and apply it to the other directions are highly provided as well as decorative. This design contitues non-bases, the Mintz and the Muniform. The blintzed flaps are used to took together the sides of the container.

- Start with a square. Crease ooth diagonals by, the whyte-side and fold four corners to the center to frank a Blinks base.
- 2 Fold the corners to the center again and turn ke paper wer
- 3 off the new outners so the enterlegal creases and antifuld including the creases made in step 2.

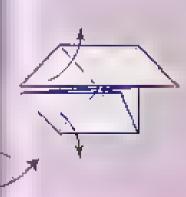


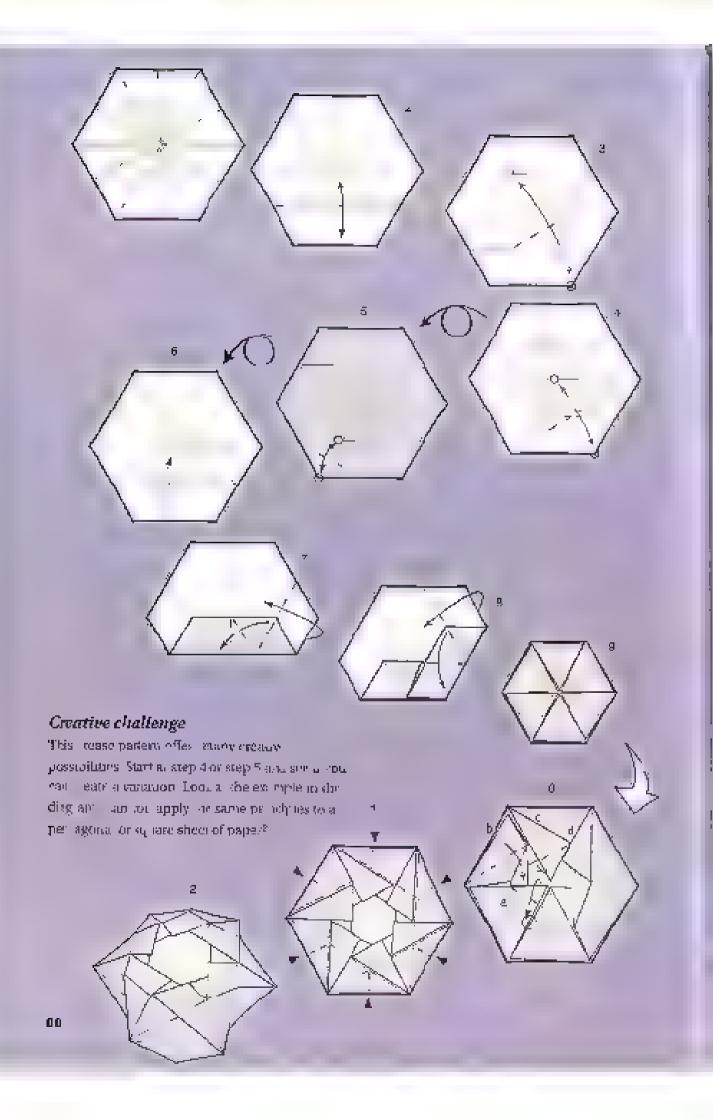
- Ise the creases
 some > foto the
 Mat.domn base
- Fold the lower right side to lie stong the luner rugs
- 6 ...dotd again
- Pull the original corner out from undernessly and journall? the way up.
- 8 Reform the orders as shown, to make an inside-reverse fold. "The inside edge is indicated by a doned line-
- 9 Turk the lower lap into the porket anderneath
- 16 ils show's step ti seen from below. Fer single ayer of paper tucks into the pocket trapping the layers together.
- 11 Pold the two flaps in opposite directions and totals the pager through 96 degrees.
- 12 The corner is now looked in place. Repeater sequence from step 5 on the remaining
- 13 This is the result after all four-sides have been object for than now upon the layers from the repter and shape the final container.
- 3.5 The completed cop pager.



Creature challenge

Look carefully at the angle formed by that crease an step 5. Is at possible to form a siquent continuor by folding the flap in at 90 degrees, using an existing trease teaher than folding this one? If not what other angles would work?





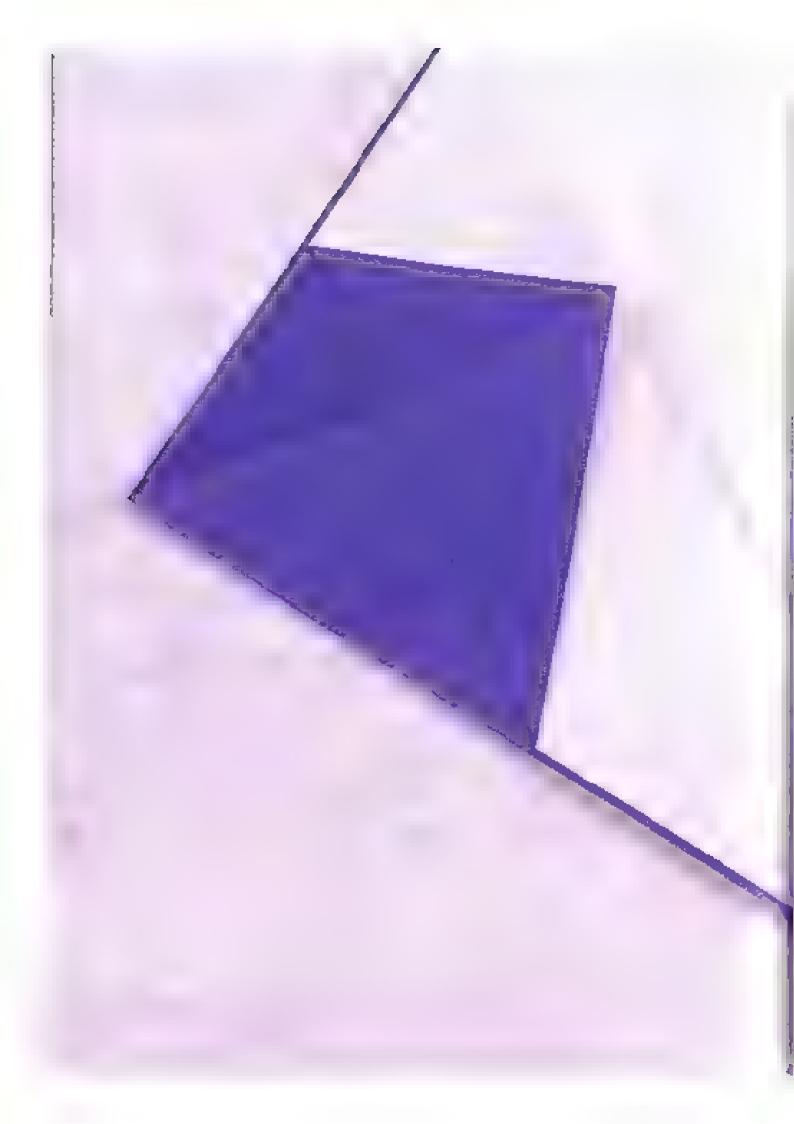
Star Dish

an at seconds.

render to the majority to be not possible as seen a decrease as a constant to the second of the seco

- Star a large of sage note on. Ac oid-in-half"type dreases preserve in the direction shown.
- 2 Fully gayssine to the center crease and infolditepear with the other sides
- Fold a corner to the opposite inside corner of the standing partial in Corner of the engine and a standard dependence of other corners.
- 4 Foliop corner to the center by, only prease a large for displaying a large for exposes panel of the final form as from a growth.

- 5 There the larger over a noncontracting in the larger of the larger of the larger of section shows:
- B Now in a negle heral-security associations of a property of the execution of the security of the sides.
- 7 Use one of the creases shown to form a section in Kabina to Plant to Same to the Jeff
- B This is the tesut. Repeat for the ternationing sides. You will used to open the first one slightly to adow the first thap to fall into place.
- This is the result.
- 10 God steffield a member of the step a step is such firestool stage. Each step should be carried out out all six sides before starting the each step.
- b) Swang dia orangana para laser in la alimbar
- Of process the non-normal process.
 Solded edge
- d) This is how each of the six sections should look when complete
 - Make store all the centres
 invers an family flattened auto
 place, and start to form the paper
 gently into a caree-directional
 shape by pressing in the center of
 each side. Phylour fingers inside the
 dish to help create, he shape. Use
 the minimum effort
 equired or the model
 may-cromple
 12. The fireshed dish



recordive Folds

The second recessarily seek to "now ake"

I something The aim as favored by designers of complex folds, as to send the subject as a whole and incorporate as many of its aspension in a single mach allow bome designers samplely the soldiers and in the side error in a few carefully thought through creases. A further, maker group of in dees, nocks at the subject from a different in the subject from a different error in a system of even spiritual representation of sensables.

if appring to make schat clidesnic matter divolat horse that the continues of your horse that the continues of the continue of the continues o

ecks life." it win never be truly great no matter simple, complex, or realistic it may be

Gone Fishing

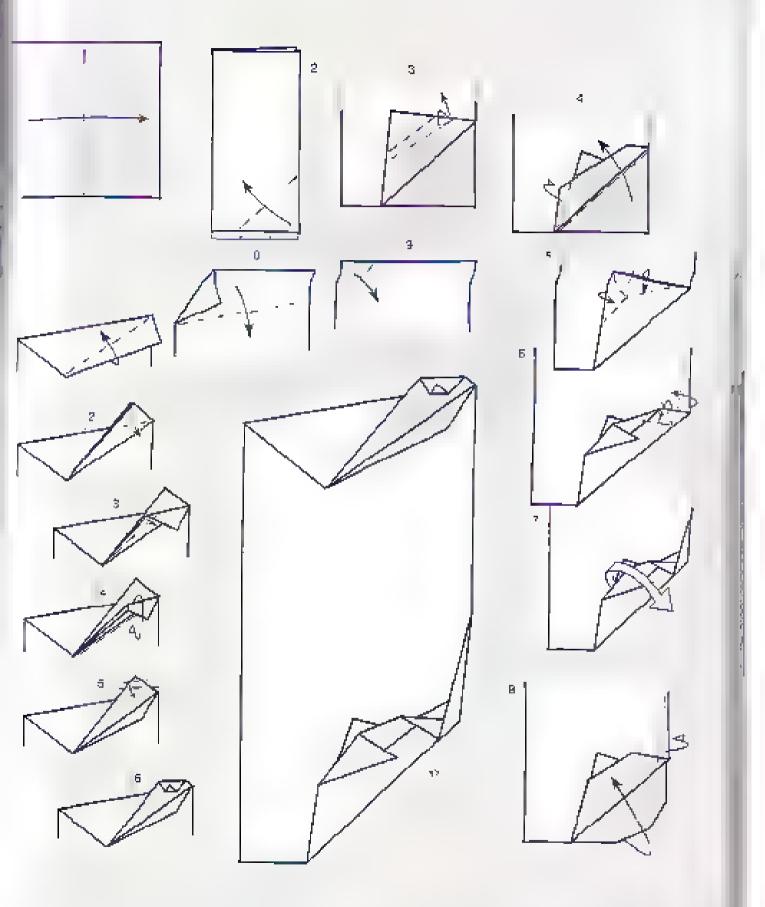
alica de New Poblicación

This model jails into the 'sin turn integer: The into and this ish "himser was burited" are made that our represent a narrative about the indeed life call the approval earns inglight paper". The restaurates into the date about, menural evaporation, he can in which the rotan commans of the paper deploy we sugger.

- Siza i vitte a strge seguant dialonos sido apward.
 Folio an half from left to high.
- 2 to wer are first awar of the donor inglitant fromer for magram 3 for guidance.
- 3 This magram Pic ises in the lower end of the paper Make an asymmetrics, New Months the fish's in
- 4 For a fee some leave edge of the flat least relation for leave force over the layer from undersign to
- 5 For the power figuresh as off-center Rabbu s Ear adjusting a least materials diagram 6
- 6 Fold the end of the fish over opening and squashing the paper to form a end. The exact position of the cleaners and history and
- Swing the appear area of the Schlouck real again, undoing the rail folds
- Musticaut-folia (for replicayer to between the lower taxes) of an relations edge. Re-form the lower fact or the fish.
- Now you must wolk on the father end in the paper. Fold over a six. I flap.
- 10 Fold or or also get flags at an angle.
- Bould inventions (Baps on a prease (Ballimms), networkers



- 12 Fold the first layer hack lower.
- 13. Narrow the point by anoutimes hiz (c.
- 14 % le lower section down.
- 15 Tuck i e paper and the pucker underneath
- 48 Aske a small otea volform the eye
- 17 o propte as rudet



Escher Fish Tessellation

Tasellations are shapes that fli together to form a

complex tessellations. This one is based on the work

.

which bas been unfolded back to the square.

Fold one corner to the center.

5

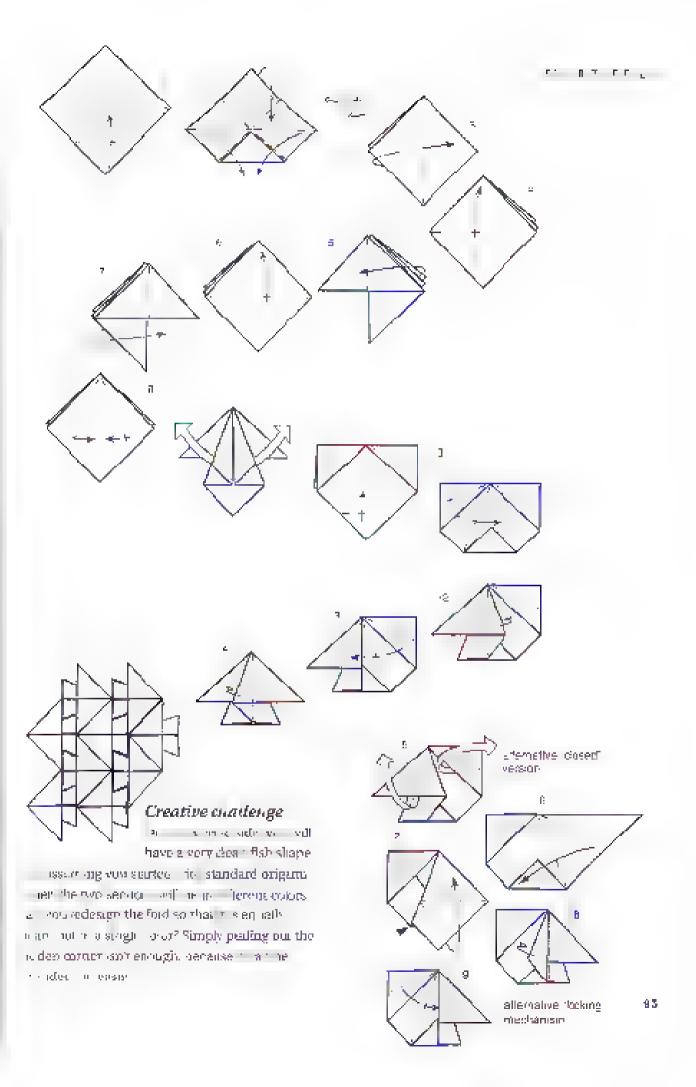
- Pold the lewer concerns, he opposite comm.
- 3
- P
- 7
 - square shape to meet
- Pull our Jie bidder rayers (see diagram all for guidance).
- 10 Field the tower corner up.
 anaking a crease that joins the two
 existing actuses
- 13 Swivel district hand only over to the right asing the égisting creeces.
- 12 Mountain-fold the flap ochland on a vertical crease.
- 13 Repeat step 11 on the light-hand side.
- read the Bag behand as before, to force the completes fish.

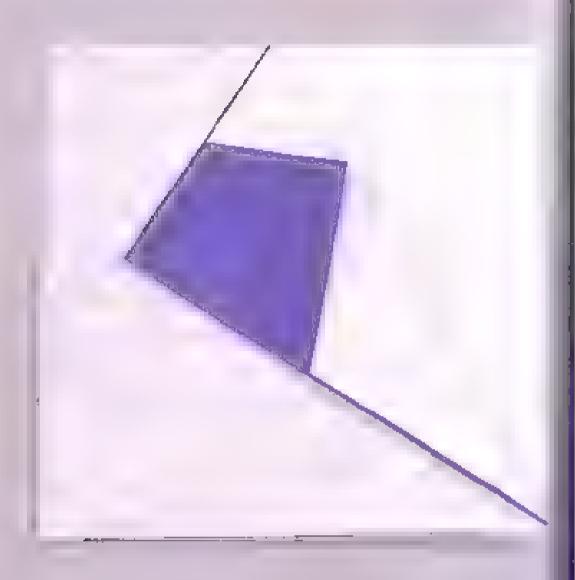
Helpful hint

are thesieps to follow,

- 15
- 17 Fold the lower comes to meet the appear
- 18
 - -> section uniternextly.



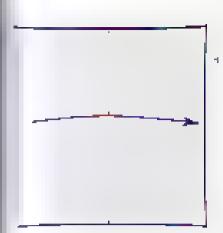


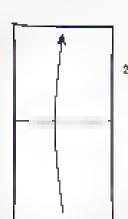


Kite

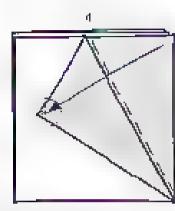
Design by Nick Robinson

This is another example of "painting with paper"
Most of the croases in this design on he soyred:
simply fold them to where you think they thould be
the fold itself came together very quickly once I had
'seen" the kite itself form at the corner of the paper
The "string" was a bonus that I hadn't anticipated!



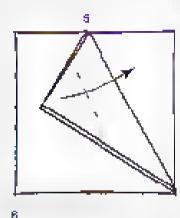


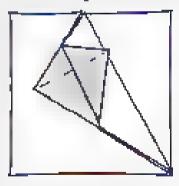


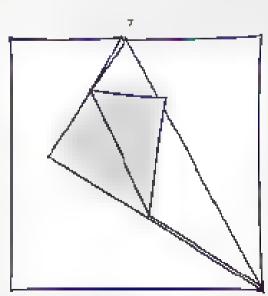


- start with a square, dotored sine apward. Policities hat from self-to rights.
- 2 Fold is in half from bottom in top.
- Fold a single layer over at loss by 30 degrees to the vertical No. let side generous. Give on ake 5 degrees:
- 4 Fold the next layer over but not quite as far.
 This will create the kite's string.
- 5 onto the top layer back over, to form a wade or matrow kile, as you prefer.
- Eagefully pinch a crease to indicage the kite's crossbeam.

The completes model







Creative challenge

Try asing a rectangle to form a kitch with longer string.

A4 Rhombic Unit

tesign on slick litabansisa

Origam has many examples of modular designs. An inganti-module usually contains pockets and flans and should hold together without sids such as glue at sticky tupe. Complex modular designs can require many handreds of identical units, but I move have the patience to fold them. I find thyself to a lew and time see what I can achieve This unit makes use of the amount geometry of the A4 rectangle, you will the 8 sheet of A4 in half and be left with two faces of identical proportions to the original.

- Step with a sheet of M with the color assisted for the outside of the finished design face upward. Fold the two shorter edges together and rinch the halfway pours. Unfold
- 2 Fold the same short edges to meet the center treases. Make sharp creases and anfold.
- Turn the paper over Bold he bottom left-name conner to meet the top conner point. Make sure these two points meet exactly and trease the paper.
- This is the result Unfold and repeat step 3 on the three remaining corners.
- 5 This shows the crease pattern. Refold the bottom left hand crease.
- Piese creases are now in place. Fold following.

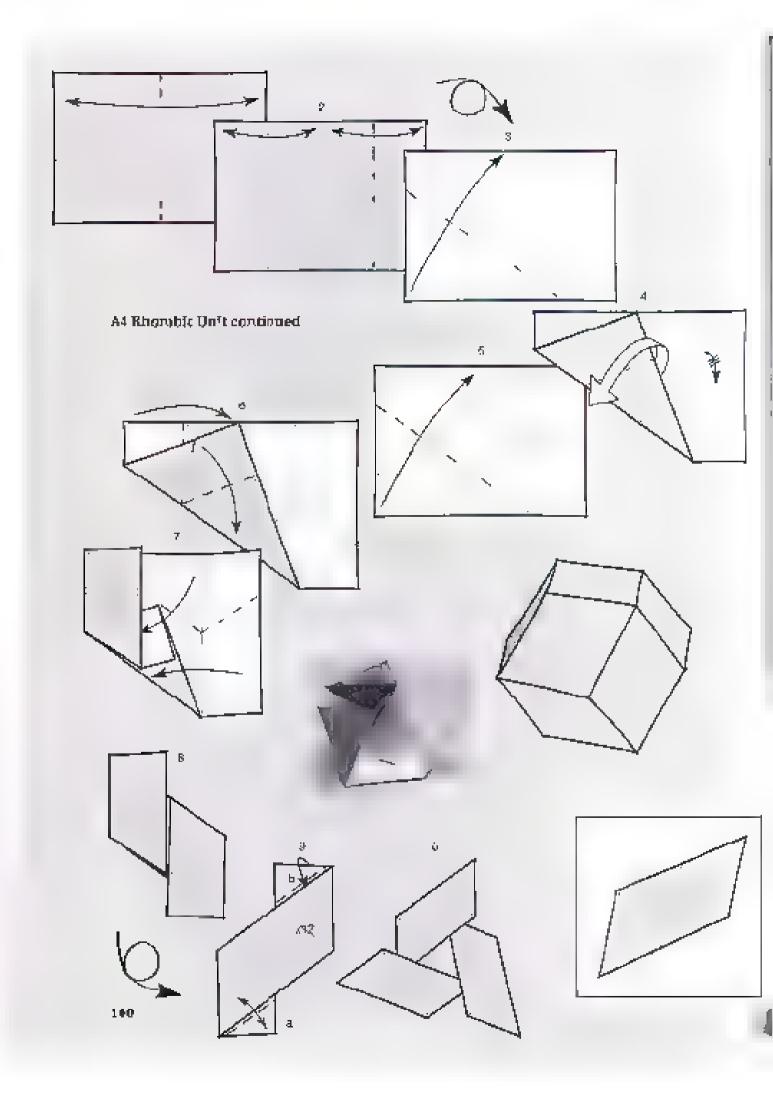
- the direction of the errow. As the flap folds using the valley crease, the left hand appearedge of paper swings at to form a doubte tayer. See diagram 7 for guidance.
- 7 Repeat step 6 on the opposite corner it may be relipful to emoid the first corner then fold this step, before completing both corners. Part of the paper tacks underneath (see djagrant 3)
- 8 This is the result.
- 9 Turn the paper over crease is) and fold the single-layer Raps within the layers
- 10 Sec Assembly helmic,

Assembly

There are many ways of joining dust unit but the essiest is probably by Ising 12 of them. The magratu-shows three units joined to form a corner, each flap will stick into a matching pocket.

Helpful hlat

You can join 5, 6, 12, 20, or 36 apits by adding a crease between the narrowest points of the central rhombus. Ambituous folders can try adding the other diagonal and scring what options are available for joining. Ity folding the module from with differentiated absets.



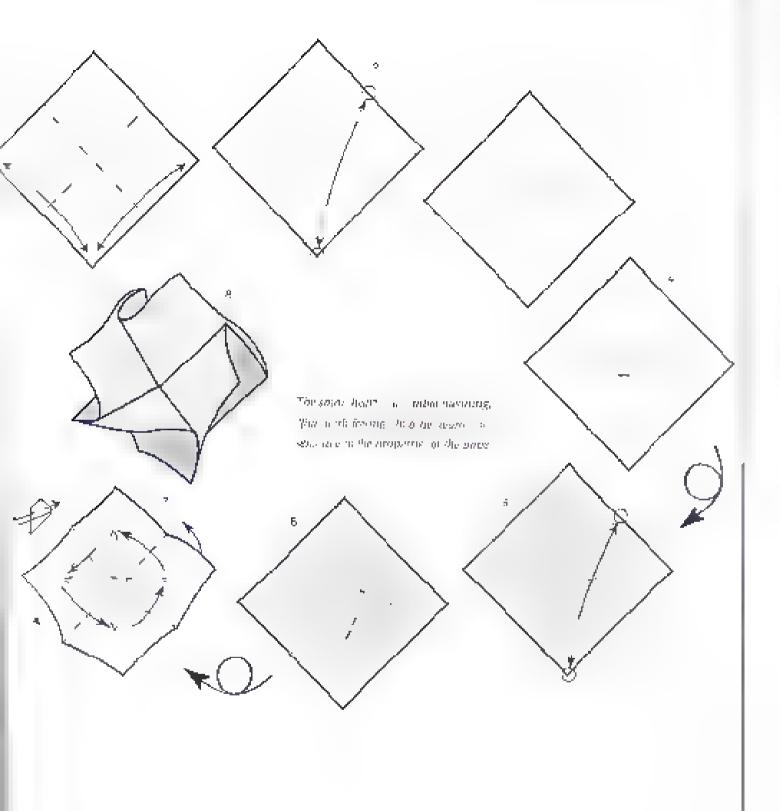


Flower Form

Physics Mick Subbrison

Of all my designs, this one perhaps comes closest as my idea of perfection. Although the craising requires one concentration, it is it difficult. Escaurage the return to sail I) you see himstocen, paper and note a source of light between the model is work expectable bequiffig. There is not much more to say about it so full in sit back and 'hapefully, enjoy it You will need to rain this several inside to get a perfect

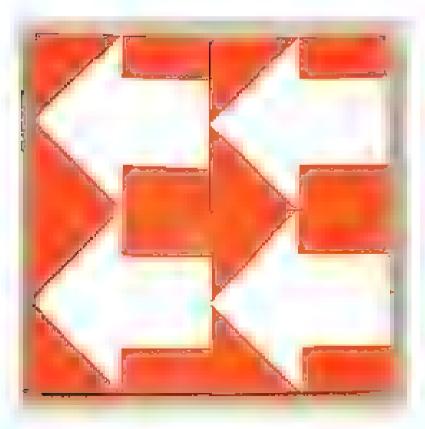
- Start with a square, and crease in it half both ways.
- 2 Fold the bottom corner to the upper right rateway point. Crease from the harbway point to an imaginary Share corner to center fold.
- Rotage the paper through 90 degrees each sine elecating step 2 to 5 ich torder
- 4 Carefully crease a small cens as agrange Followith feeling!
- 5 Furth the paper over and repeat steps 2 and 3 on each corner.
- 6 Thus is the final crease pattern. Turn the year eyer.
- 7 Store to make the proposite the manageous viscosition as you allow the cropse to our unito place. Keep theisting, carefully as the fatar? creases meet up. Fold with feeling.
- B ite completed odd



Arrow Tessellation

Design of Rick Chargeson.

Tessetianions are shapes that can be piaced together so not they form it continuous stripics. Inform, is well stated to producing simple tessellations and sometimes more samples ones. A securagly antinominate more same unique them one information of the amount of the date by the tate Dart Mason. I made secure, tend them up and suddenly saw that the arrows refr arrow shaped have going in the apposed direction. These origins. Topics are often for key to creating. Remember though, you may have an idea in a fraction of a second but the finished design may take a tot langer to perfect!

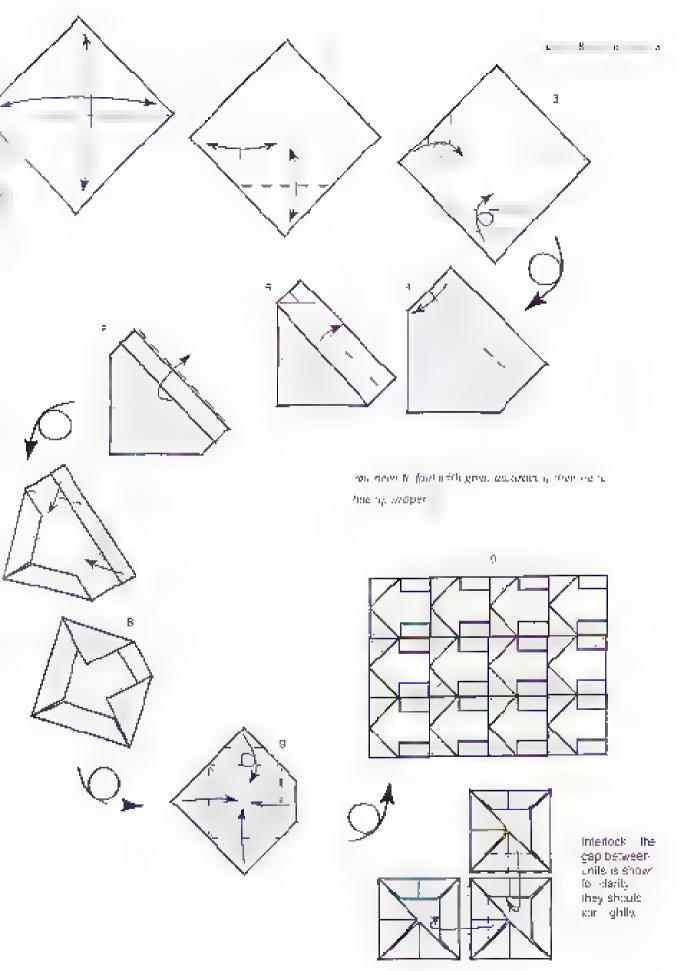


- Stert with a square, white side up and one numbel lagurate
- 2 Fold two edjacent comers to the centre or and centrals.
- s which expert to five wither oil terms ever again on the mease made in step 2
- 4 Turn the paper over and fold the two ongliscorners to meet the nearest angled corners
- 5 Fold thir raw edge back out to the folder et al.
- 6 Injoid the double layer flap.
- 7 Turn the paper over and fold the two corners in to more the short throughters.
- 8 This is the result "I must be paner over
- 9 From we corress to the center the control control awards and do able total the zero are to content as in step.
- 10 Turning over kill produce a single arrow and " Joing the Baps on the undermeath." an wrap thema round each it less to haid the arxis in place. The more "wraps" the righter are finished result.

Creative litiits

These units ions best if folded with great care and accurate They can be placed under a glass feasition an eye tracking display.

lik more mån dya, prims on may the more impress of dy resonars in appears



To Complia A grant was a superior of the super

The state of the s

the fibers of the paper together and provides the stiffness

Lampening the poper dissolves the sixing, superating the fibers and rearing the paper flophy and malleanie. As the paper dies the reverse occurs, setting the fibers and the sixing the reverse occurs, setting the fibers at the desired prisition.

We mutually retilizes paper with the correct tops or strong fracts are simply not

nert tope of stand, fracty are simply not suffice an general the thicker types of paper are best, but the only true test is only Beware hough dampened paper is notonously difficult to handle and learn easily like

<mark>pape</mark>r also expai da

nevers in the direction of the moors so accurate folding is also a problem. It is not the thickness. If it is appropriately that complex folds with a large mumber of layers are impossible.

The teases or or or as they will ear easily To damper the paper use at misorben as the reason both states of more substitutely and the reason of the paper use at misorben as the reason both states of the sheer substitutely damp an atom zer the key and substitutely. The condition of the paper needs of the paper needs

Since the paper dries quarkly, you should fold it promptly—hence the value of knowing the folding sequence you are going to in low. Use the cloth to fampen the paper again as and when necessary, who to ding means that much of your folding will be nerformed in the air as you continually shape and hold he paper 1. I want a specific crease to dry. I blow on a lits single, but effective

nice vita hare the contributed you all use at this methods of drying is not a strains as shape boundar use a harrorve, by a salume of put he model that the glit of an

As it will discover the see, at the care of wet folded ingalities imposss at to achieve an any like way. The effort in owed will be well as for the property will you have a least the and sturdy fold but lived has for many years.

Elephant

Design less rock Robansho

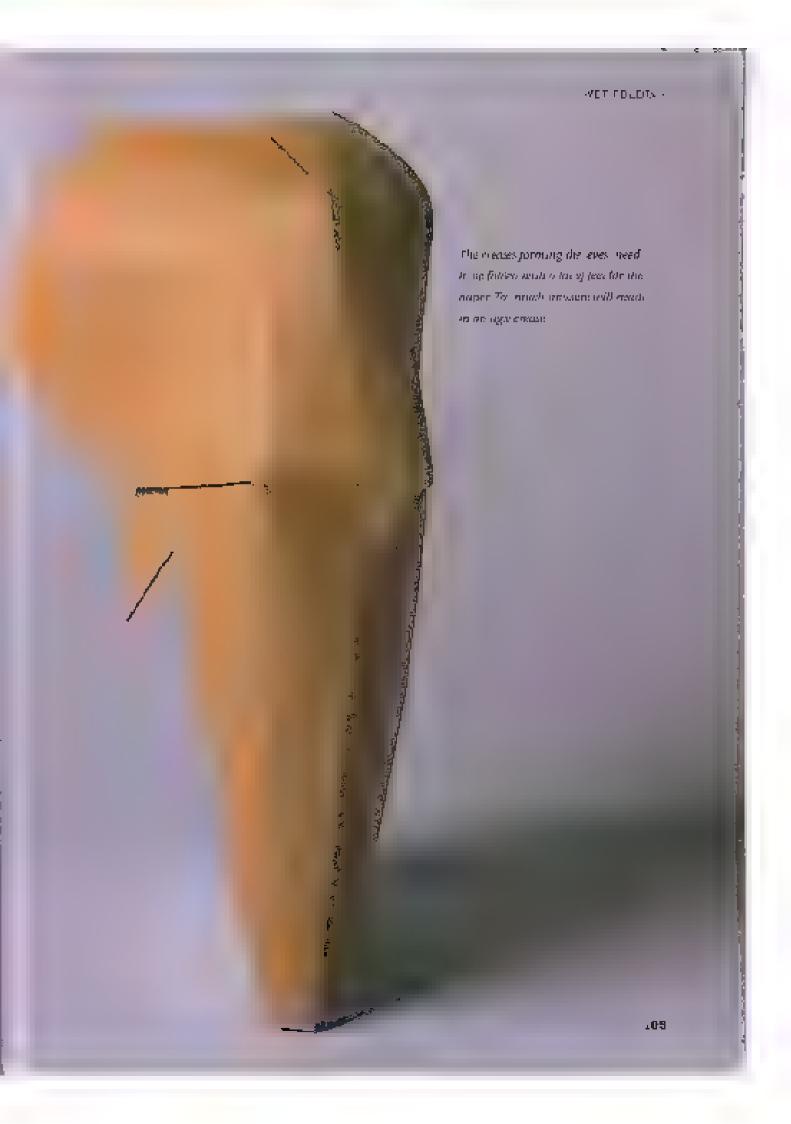
to it an examine of the x-com, and how a be broken down into kew elements—tusks, frank and so an x-anchery foul of rechniques that "trup" the paper and hold it in a three-dimensional form at the some time. The basic shape of this design is created by using fast such a method in dep 5. The formation of the eyes in step 15 is suittle and helpith's a degree of finesse. Be corefue not to press too hard. You want gentle creases. As the symmodializates, forwards feeting:

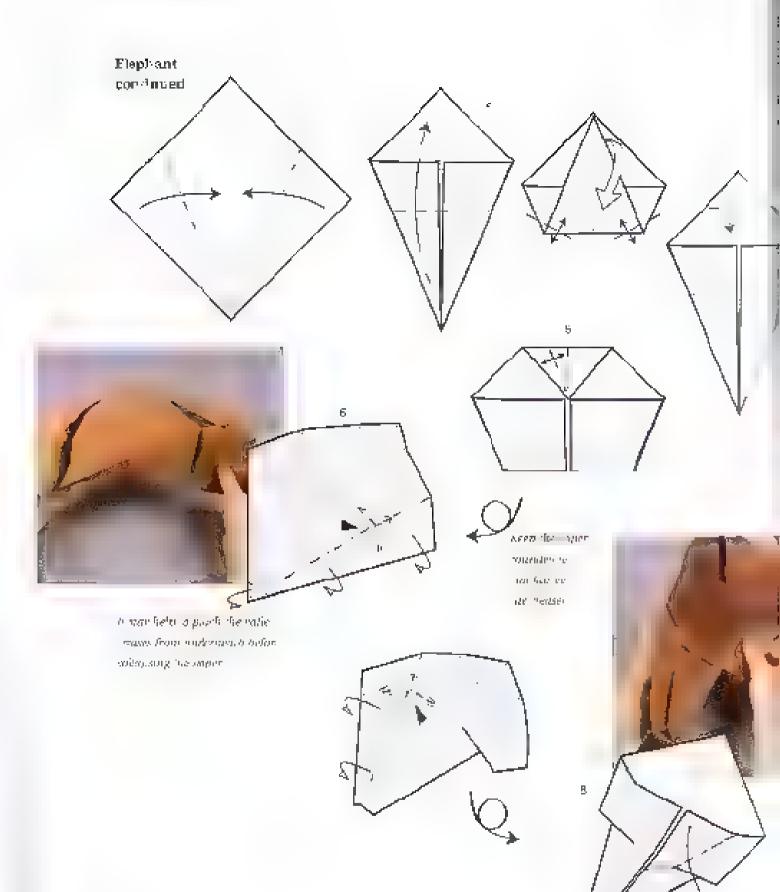
- Start with a square creased along the dyagonon.
 Food two sides to the center.
- 2 hold the lower point to he top.
- Make two-small pre-creases and autojd.
- Pulse the applicave to meet the anside corners.
- 5 Make a vie-crease to bisect the left hand side of the triangle
- Open the paper out then use the treases shown to form a three-dimensional crimp on the paper. Follow the creases carefully and doo't force-the paper. No extre creases at the life.
- 7 tapes or the other side.
- 8 Furn the paper over ther fold a flap back out as shown
- 9 Fold the short retored made edge to the folded colored outside edge, crease and anfold.

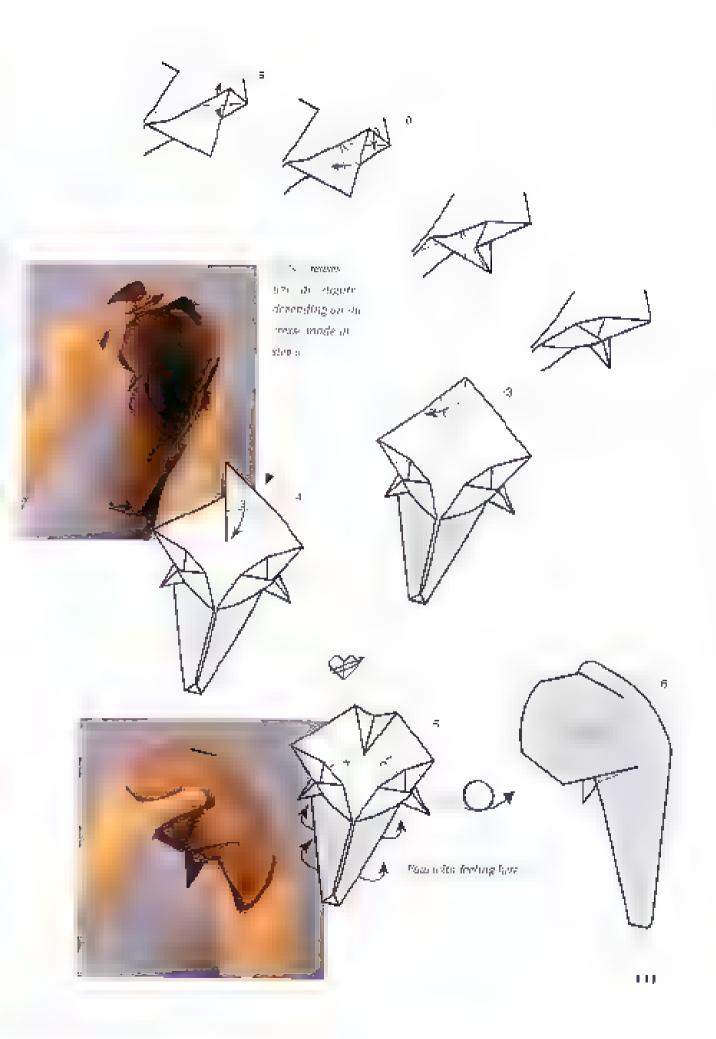
- 10 Form a valley crease connecting the end of the last crease with the tip of he point. Asymmethic dustries, given some encouragement, the hoper should flatten negrey. See suggreen 11 for model to 6.
- 11 You enjoyed that so much, you'll want to repeat a our the other half of the same point.
- One tusk is complete. Now repeat with the other disk.
- 15 Form the year into a three-dimensional shape using the creases shown You'll need to ensend
- 1.4 Complete the head by folding in along existing oneses thidden creases are shown as drujed thest. This is a for move artiferry chegant.
- Lis Pinally cound the mank and make gensle shaping folds to suggest the eyes. Try to keep or area in according all intestions are use the ightest creases you can followith feeling:
- 16 The completed model.

Creative challenge

Can you work out how to form white-make instead of lotged ones?



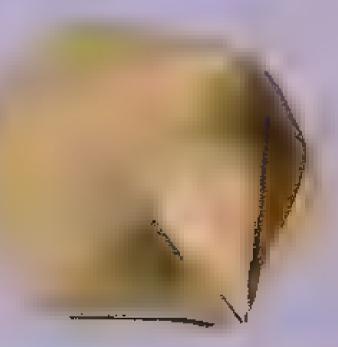




Baby Bird

Feliginar Nack abussan

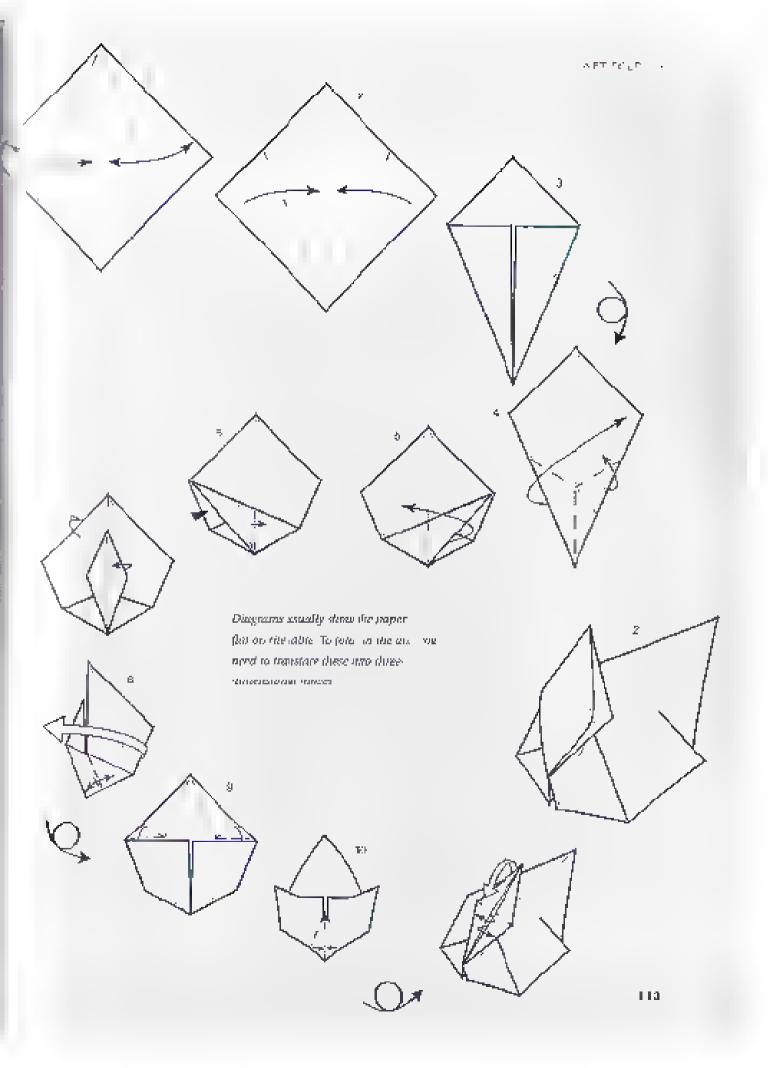
while to create shaple designs but also to give them to the element of three-dimensionally. Thus design is a good from the second of three the mode. Then I was writing this design, I had a mental image of three bury blads in their nest braks unde open waiting for sections.



- Start with a square legeased along a line or a fold two sides to the diagonal legease and or fold.
- Repeat the move with the other two sides but there is not but the
- This is the result. Turn the paper over.
- 4 Make two valley creases to lie along creases
 the indensitie. Some the point into a Rabb
 Eag tlautened in one side. Typin bake got
 far in the book you shoukin't find this more
 ton difficult.
- 3 Syng heronis Theorie ade
- 6 Factor the apsymmetrically free assists into more recessor.
 - Ford the language could be replied to a destroy appearance of the country.
 - B. Make a firm crease as shown.
 - 9 Open the naper from indenseath a service track rate creases we in allow the give the body its three-common ional form a real rate.
 - 10 Shape the base of the neck by igt at adapted any creases
- 11 farr over and open for beak slightly.
- The completed anodel.



Native: You can clearly see him well folding repents you to fold in the air.



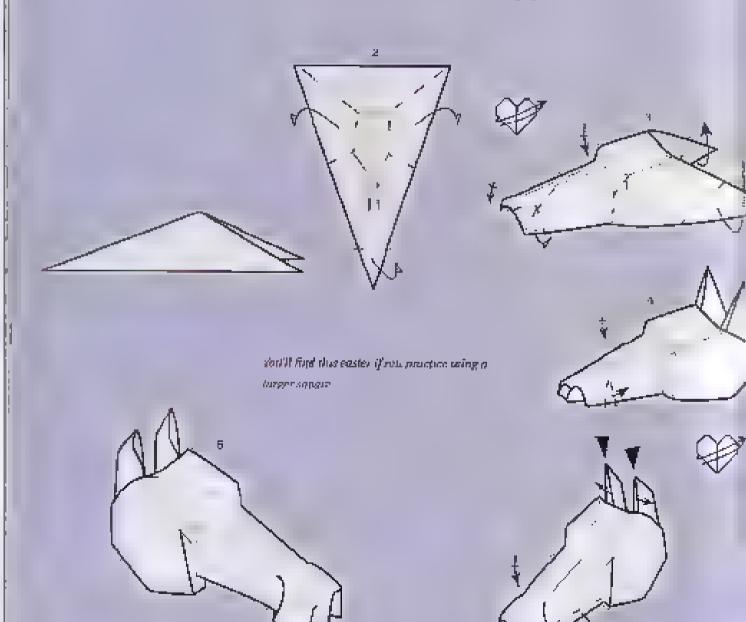
Horse's Head (b)

Design w David Reill

This daugh is taken from the version on page 50.00 m a wonderful opportunity to problem a continuously of the vapure b is a very simple design was the chapting and molding will take a lot of practice unless you "have the gift"—recommend you use a

targe sheet of paper so raw no receity get to grips which has retense to a so factors the cheases near carefully and to fold with feeling a, wh times.

 State would appear folded as let us the And zur step 5 on page 5.



- Open out back to a triangle and put at the mountain crease shown. Pold the up of the sharp point undemeath. The paper and edition becomes three-dimensional and then needs to be folded "in the six"
- 8 Make three light valley folds to suggest the eyes Foto the ears inwards and apwards. Form the positils on wither side.
- 4 Shape the back of the east leasyll and make small crimps to shape the side of the head some more.
- 5 Open the ears and hold the crosspurplace by making amountain fold, squashing the ends of this capase as heady as you can
- 6 The completed model. You will probably want to make this a few times:



Toad

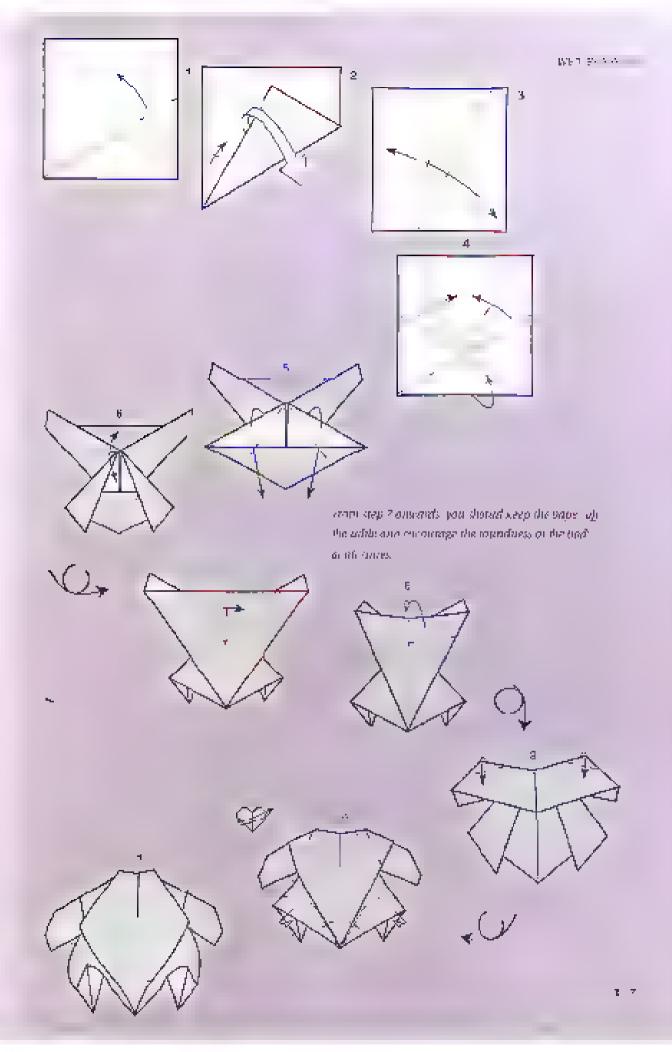
Ballstick Repries at

A congruence anather of the creeke arms and the recovered and the second arms and the second and the second arms and the second arms are second as a second and the second arms are second as a second arms are second arms are second as a second arms are second as a second arms are second as a second arms are second arms ar

- 1 sam with a square in median contraction in a some or modern. Fellow to rever highly to the reversions at the reverse southing and read at the reverse ferficience.
- 2 ike this to be an ampeat with he ower as hear we
- It is as his artist to necesshe of the lenn in the orthogram, started at that comes Unfold again.
- By changing part of the creases into mountains one can fill like the region

- 5 This is the result. Fould therefore is given by the result in the control of the diagram 6 for guidance.
- B sk is allowed as through at layers
- 7 Form the larger one could be progressed or completely and control of the contro
- aid / eirear edge in accrossabilismap ் கைகளைகள்ளது. The paper insigningens our greath
- 9 Here sinhe may from a liche regraphed the welcomers uside a round to be something.
- 10 m manager. These final round by loads are on rely up in the like masks shows an long duam unb. Make these leases ger and any openious go the legs to stay wilderness his principal and appreciant to the toad.
- 11 The completed toad.







Complex Folding

As the second situation of complexity ranging from the very a simple to the bend situational with a most all to deriven by a challenge on time to the accurate level of complexity, almost all to deriven by a challenge on time to the and complex original certains, provides that continue for each one well in control of nour fingers, if ou make a single error at the start, we have magnified by the time you react the fity six histight sometimes so in this or to write be about an all. The its adage about practice making writes approximation as it also in some fity of same it is in the first and accordance to the first accordance to

The stremang is the strength of which serve you well or the piece in any account of the piece of the piece of the piece of the strength of the piece of the piece of the piece of the piece of the strength of

The lesigns in this section are far from the most complex it at are available on its melloon a even ralegorize them as "intermediate." However they

excal Last pay at his K

are complex by my standards III marely, the labels are



Concorde

Design by Mick Robinson.

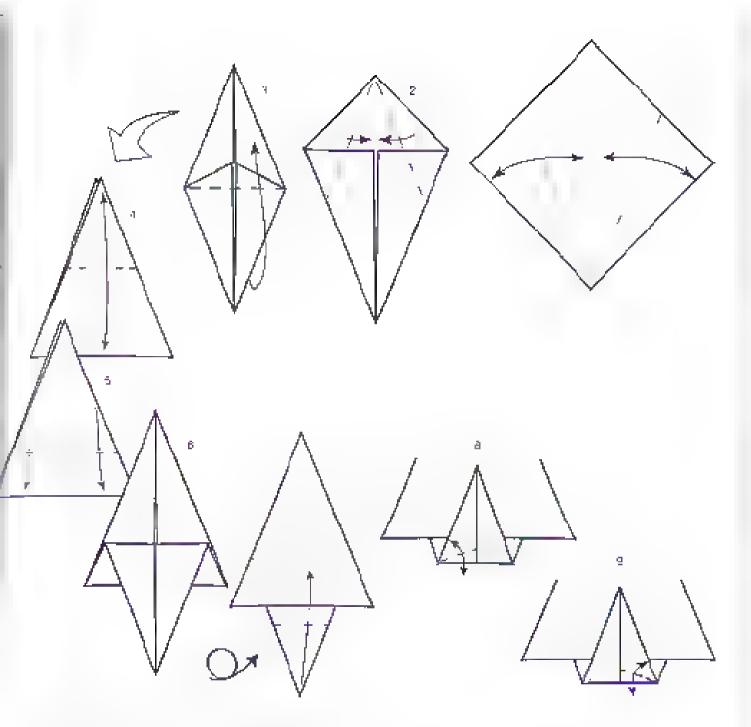
4. Ozorgan i gra virale visel, vis. in viva. beautifu, profile will neger be forgotten. Foe trial, in dils design, to capture the Rives of the plane without worrying about the fine details such as engines. undercarriage, etc. The folding sequence includes a number of meful techniques that you can employ be whit awn creations. The familia of the nose section regranssia delicate wouch, especially if you are using imuziller-ygggen.

- Start with a square, white side upward, with a diagonal crease. Fold two adjacent sides to the center crease.
- Fold the remaining raw edges to the crease. Phis forms the Diamond base.
- Fold the actions country a are unpepring;
- Publisherop corner to the lower edge, make ok i jaih tearks of N

- Folta du pinch-marks to he lowes edge.
- Tarn the paper over.
- Foto the fail comér to lie to the hidden edge.
- Make a crease manning them the lower righrotiner to the good, where the eight-name sight or the anangle meets, the tanger harizabasil. felded edge Daty crease as fangs the cerater crease.
- lepear step " on the right hand side.
- 10 This is difficult. Open and squash the refr-band. aidd of the flap. The squash crease underneath uses the existing crease, the opensy on the Брірей міует із вітвом стеазе.
- 11 Fold the pote to the belt pulling paper our from waitun the flap so that both sides are Membrail, who might like to practice this steprala and sheet madel

12 To hi papa mei



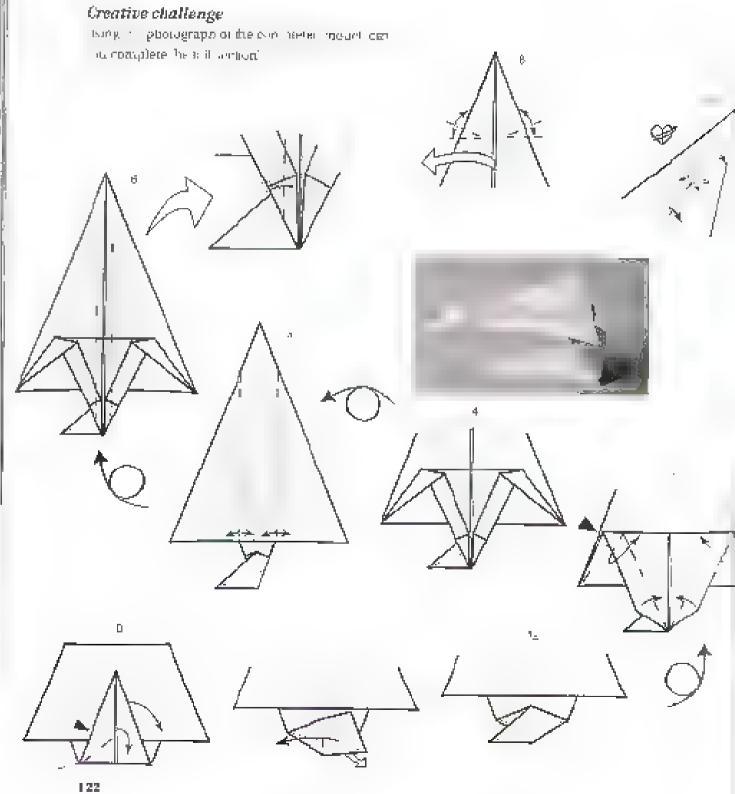


- 13 Politifie gwer edges of the impermosi faut the center, extending the crease as far as the apper hunizontal edge. Swive the outcodges so distribe paper lies flat.
- 14. There of beautiful arm of gapes over.
- 15 Stating from the all section, make tell vertical creases. Turn the naper of er once more.
- 16 Make two more vertices creases close to the perger trease. These creases end of the same place as the outer creases. See diagram. 5

- 7. This is the location of the previous crease.
- 8 Adke small but neglecenses as at warther open the left hand laver of paper.
- 19 Make a small crimp as you refold the layers, replaing a ring mangle of paper in the rayers.

i antinucă next page

Concorde continued



Mushroom

resign and sometis

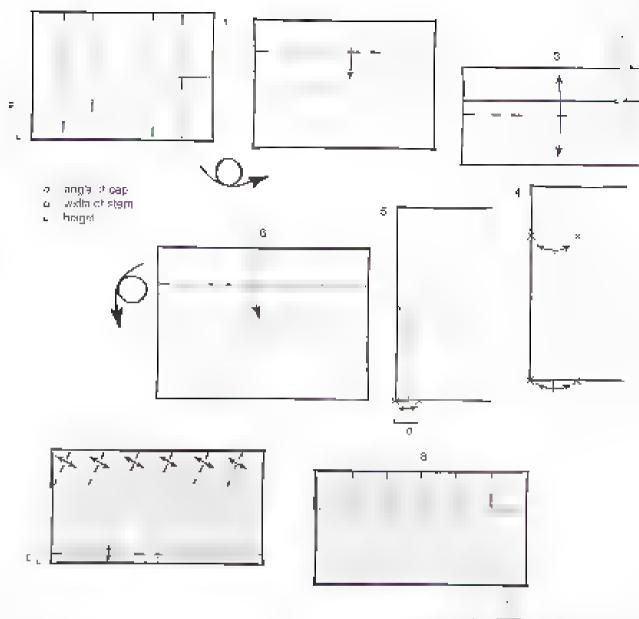
This design was created to complement the caternillar I designed for an Austran Wonderland original compenition. The caternillar is now jost for mer tower throw models away unuss you have the time so it lines on Shuzo Enfoncto has created a number of baces and subes with a flat, twisted enail noticed that if you after the angles and proportions, instead of a flat enail von create a control shape had recognized. Just as the head of a musticeant the only remaining design problem was to ridries the stalk. This improves in a rather happy, as you twist the super. The proportions of the masteroom can be aftered in the creasing rage, as explained below.

- 1 Start with a sheet of A4 or similar rectangle, creased an half both ways. The side nearest to you will become the colored cap of the mushroom. Advivertical one-sinh creases. This produces the "stondard" coashroom. If you move the horizoptal crease upward (increasing distance "a") the cap of the mushroom becomes shallower.
- 2 Turn the paper over and fold the top edge to be non-hondar crease.
- 3 Fold the lower edge to the apper (folded, edge Open on the for ble rayer.

123

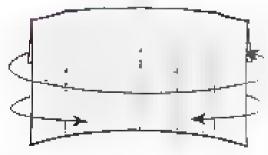
4 Fold each of the one-sixth sections in half adding one-twelfth crosses where shows. If





Mushman continued

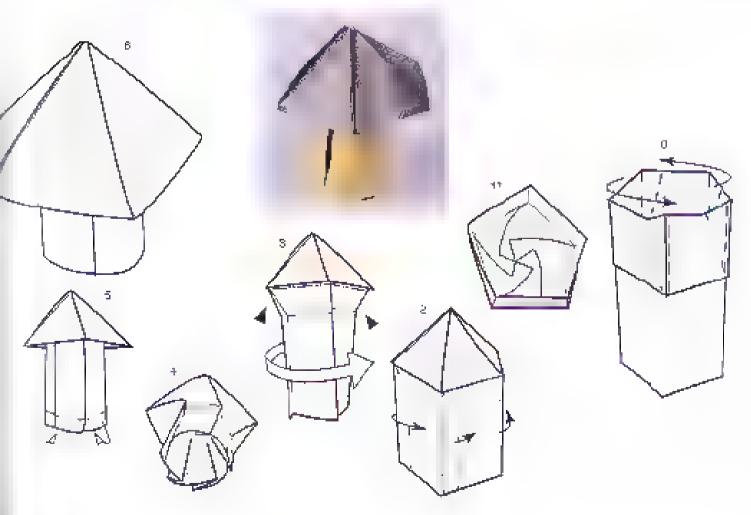
- rous increase disprises the Lie scale will accome thanner
- א עוצרים the left hand side of each, אופי היים א exactiding the crease tip to the first burizontal crosse At that point this a cross to meet the deat has ention of crease apprend and left
- 6 Repeat step 5 to an other five sections. Figure down the on edge Justin existing trease.
- 7 Turn the gapes over Nobe sharp valley cleases between the 190 reference points shown on an air sections. And up a small.



second at the horoth, the distance is determined the height of the mash main mercasing the distance makes the mash more shown

8 to durough both layers making an creases also 'sperp products of creases

- 9 Form the paper into a tube nucking one end anside the double layers of the other. The six sixth is not print of the standards.
- TO the school being it masses in an access to otherwise the top section into a cone with each internal comes wrapping around the next This car not be done a line at a line by must happen aimost as a slight more more of water the paper where a should go, here start all the sections are necessary the major as a whole and ghirthing the major as a whole and ghirthing the major as a whole and ghirthing them the inside use your congest finger as well as an our some last surrous start with
- the raw edge where the rainer is their fairning teeth and hold that tight you have
- 11 Thus is the completed internal arrangement with sone!
- 12 Start purting the leasung, creases shown into Made, gen will wish by the stern as younge.
- 18 Trace to createst are in places, twist within a lid trees the sterr up obtains he hour.
- 14 This is the result. The greases should me smooth and the base of the stom as munded as possible.
- 15 Lock the base area position by forcing in along the existing those
- 16 The completed model



Green Man

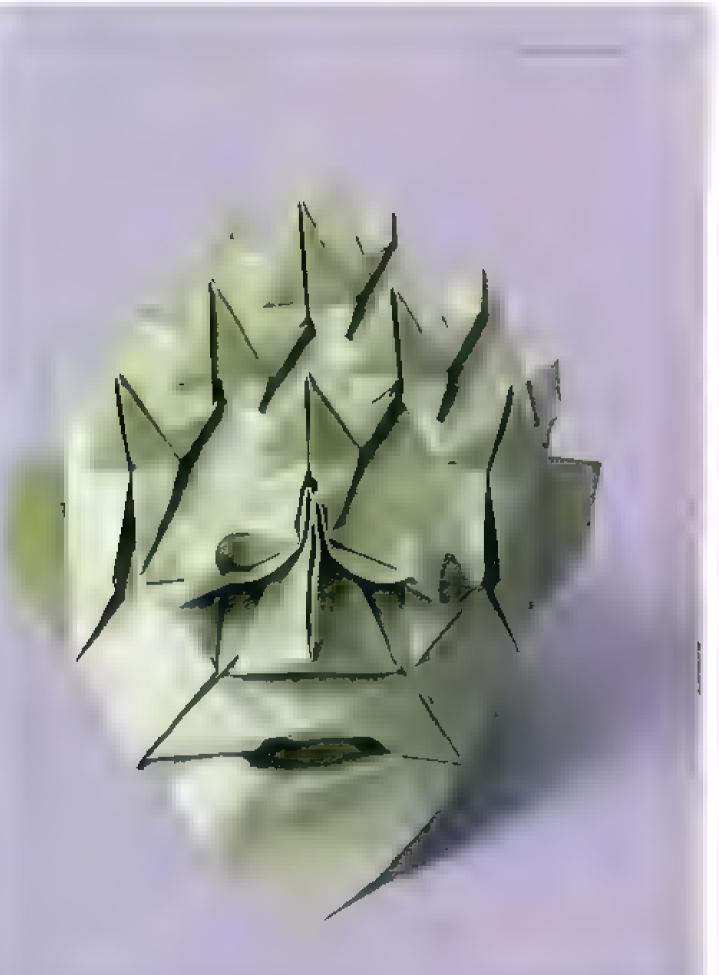
t have a fascinetton with origano macks mus faces. They are usua: « simple and expressive, but this one were toward do more complex and of my work, It is:

the Middle Ages, it incorporates a technique for creating nounts devised by the Australian. Steven Casty. The development of the design began with my discovery of a reclinique for making a nuse already had a method of forming the mouth, but a needed type, too. Making a much square mui could be opened trud eyes left a series of theorem the top of the head. I realized that these could also be formed into small squares are could also be folding sing demonstrate of the familiar Flagging Bud

This moder will require a targe sheet a paper for your first efforts. The paper should also be strong at 163% (abid you have mastered the telefunque for forming the bals. Se prepared to get building and have to start again with a first sheet of paper conducted the paper can become very died, and prone to tearing.

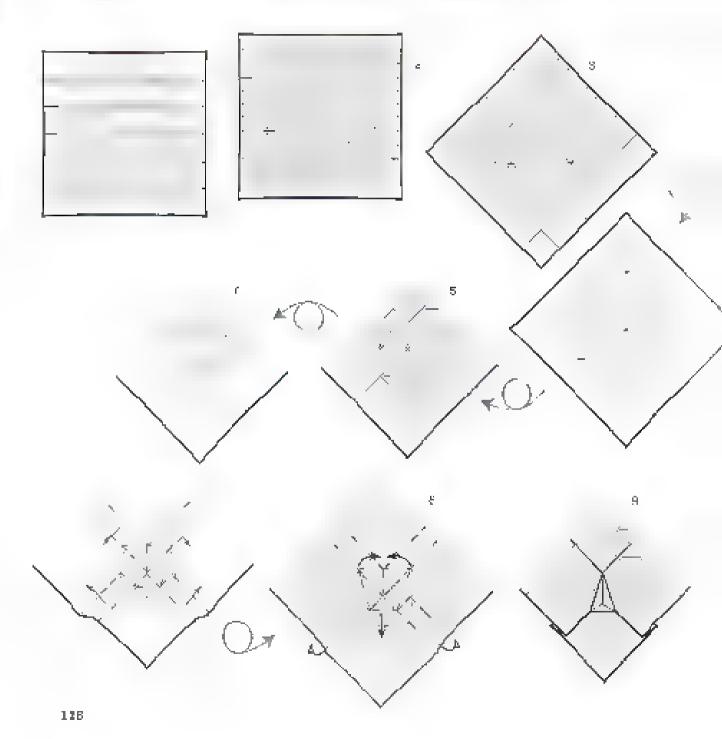
Once you are manifer with the follows method you toight like in take the model to near completion using paper suitable for wet folding (see the chapter on wet folding). At step 26, wet the paper and shape the face. This will allow you to be more expressive with the modeling and shaping

- Start with a square, colored-side apward. Add
- 2 Add one-twelfth creases with the exception of the norrow one-sixth. Costle the same of er all degrees to the originals.
- Add, short valley creases where shown. Note the post rous carefullof.
- 4 Furn the paper over and add further
- Turn the paper over once more and add the creases that will form the roise. Note that the orientation or the paper is the same as in step.
- Pure the paper over and add fartner "ngse".
- 7 Fold carefully, using the consess shown and collapse the paper (see diagram # for guinance.)
- 8 This shows step 7 from underneath. See diagram 9 to see the finished move Turn the paper to whichever sine makes most sense to you (step 7 this step, or hogh?) and slowly work toward the finished position.
- his is the result you are aiming for Make stor the creases are fitting in place uses upon the paper out again. Sorty, but its necessar.
- 10 Make a series of pleats in the paper
- 11 Make simular pleats at 90 degrees.
- 12 Open the paper of, around the top 2 x 2 section doesn't matter what happens to the rest of the please at this stage, but don't open these out fully
- 15 Make sure all your creases major the diagran

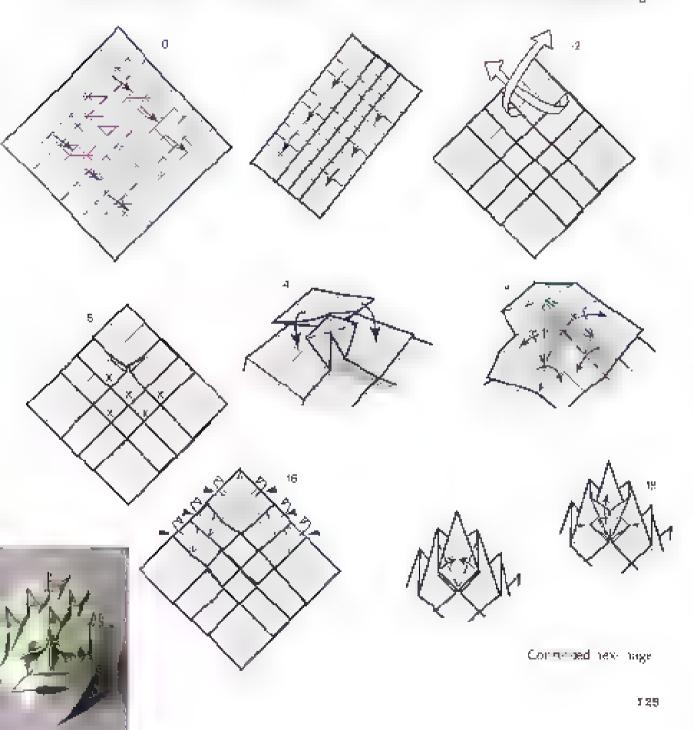


Cacen Man continued

- 14 As you collapse the paper on the creases thin ared the reperal section opens or tward to sum a type of Preismmany base. In: to sold get the and march the or the paper may tear.
- 5 Nake to libr totals on the pulmas markets v
- 1.48 Fold he awledges between each of helseon's flemening the layer underneath. Check daigram 1.10: guidance
- 1.7 he central section reservores and inside word site. Fold the lower sides of the late to the central



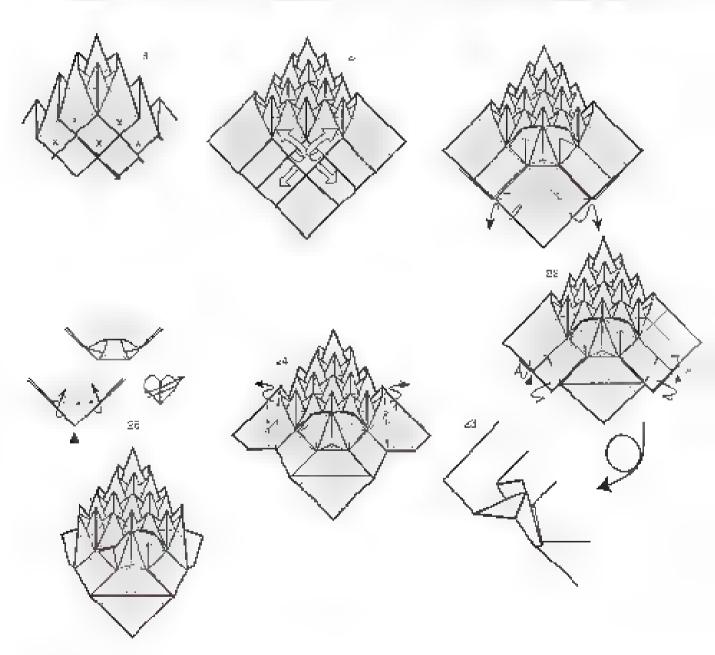
- 18 Lu to small central flan and swong quantities a petal total
- 9 Remeat steps and Book the tave flaps of disarted \$10 to 00 to 0
- 20 This is the car past Restorm the tinse section by specifical subficient layers of maps. To show
- row godess. The two level flams down to be tolding halfwar but Take care at the hope in term in the position of the tolding the evel flags. It keep it as near as possible
- 21 Pige is assert advell-fake a plear in form or should
- 22 Ford the inversides of the face list mill loding



Green Man continued

the mountain creases indicated and squashing a dap behalf. Check diagram 33 for guidanor

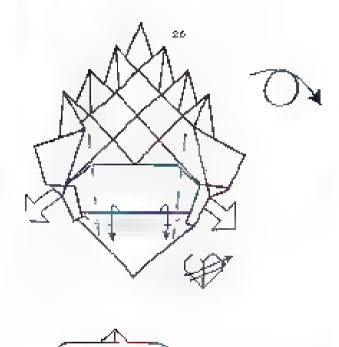
- 28 This is the less to seem more underbeach. Representation and other side.
- 24 Mass is surple inter to from the ears.
- 25 Inform the eyes, hold are worter byers of the facerhamb base section and designer.
- preams after engineering for reinter a line paper squash asymmetrically have sleaster than it shoulds. Fold with recting.
- 26 Looking from owneach the design group of the lades investo and see the product As what do this fold town the content of the labeth taking the land to be enough.
- 27 You can now open and shape the mouth as the wish Each time the result will be subtly



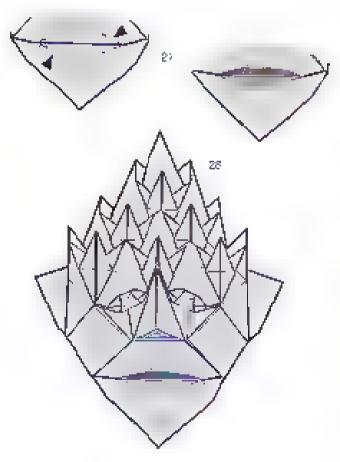
inverte and will and therefore to an face.

22 he so picted mouth and, indeed, as implemed as sign seet done.









Skeletai Dodecahedron

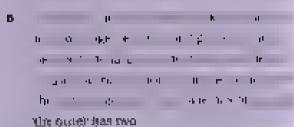
Design by Robert Strain.



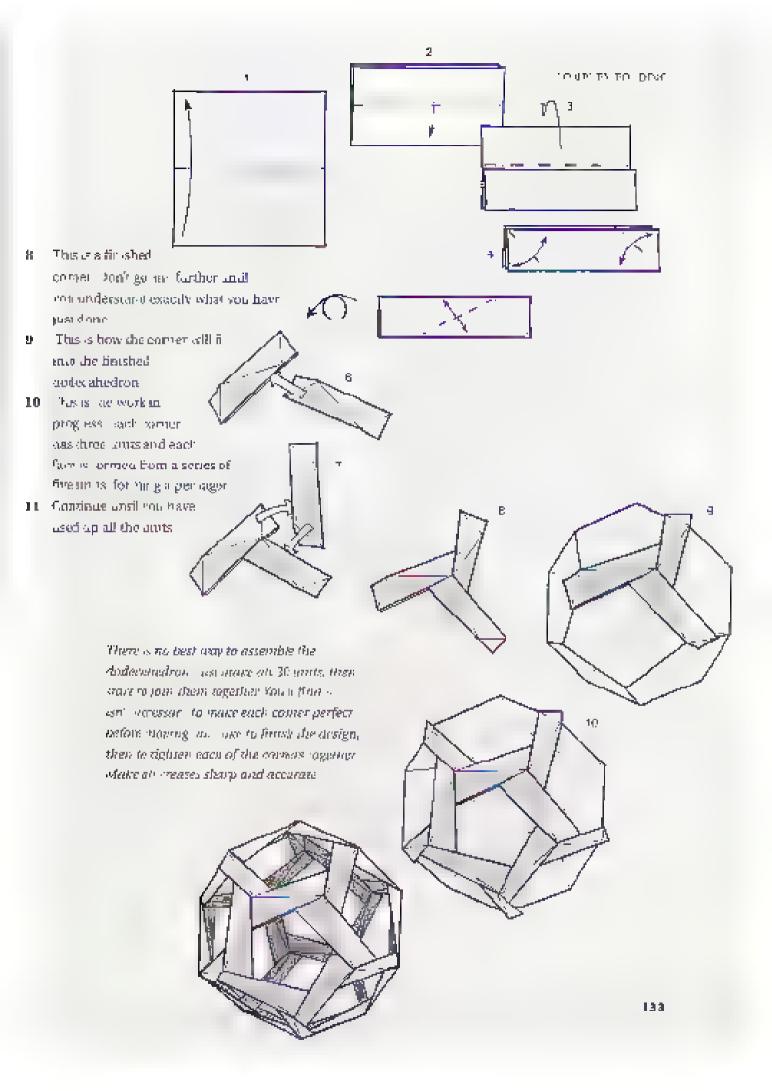
ls perfection manadular origanal; it is simple, viet

li a	e)		O a	-11
0.0		drig	-	

- 1 a d p p
- 2 Fold a single raw edge back down to the opposite side.
- 5 Repeat with the remaining raw edge.
- 4 Fully discrewed tell comes to meet the top edge. Fold the top right; country is meet the lower edge. Both treases go through all layers: Unfold.
- 5 Make a crease that joins the creases made in step 4. Ond this easier if sure the nature over and pinch the trease, as in a motintain fold, but a depends on the size of he paper.







Gallery

them and set the rather model, and you I need to contact out it follows to do that in the meantime. Acre are some less gos for you to admire. They reflect a wide language of migalities, estationtaires, each acre admired line designers personal rision of what makes for good origani. As you can see, some folders prefer to ill some use hard creases others prefer soft creases. Some make large abstract models others any but realist.

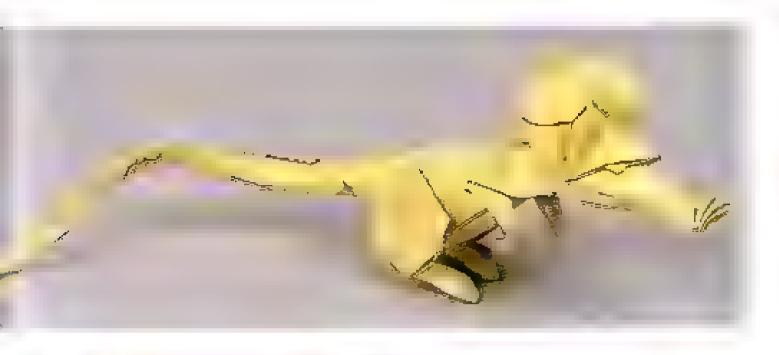
The pervousive draw inspiration from these photographs and use the color taggets for ways at which you can interpret organic designs. Aways strive to fold the perfect example and work with the paper rather than forcing work when a topic than a good "touch". Once you have mastered a folding sequence you can



Shell

Deem Democrased trade has appeared ording to precise the fooding to precise to send that





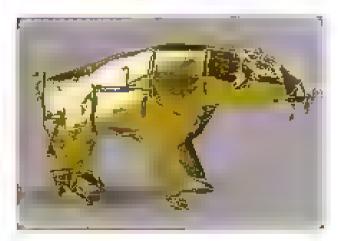


Jollar Dog Vence

zilds design of कीर्ट Rolanson's brongs a namber of original स्टोनाव्यक्ट के राष्ट्रा की व विवेदना क्योंग

HOUSE JECOME

Eric Jobsei of France Irrings a serve aj fearjiot diid animaldon to lus morie this decare hits a contoon-like quality vare in originasi



Saber Touth (Sector)

This prohistonic smilledge units created by Sataslia Konzuja, a voung hipanese forder of mimerisa ralent. It has been beautifully forded by John McKrover



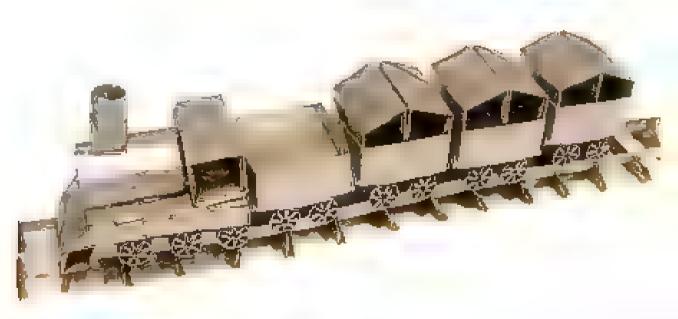
T Rex papare this like up the surface demonstrates upon veces plan togate

to be hard - day ada also be soft. Adding carries to - w nashri

Floderer Lagran

Alta extruordinger, george by men Froderer combines, majurionen vrugaur hases inne an matemae remograti_e - die paper so flatte remogrationen neut gipes by alligares.



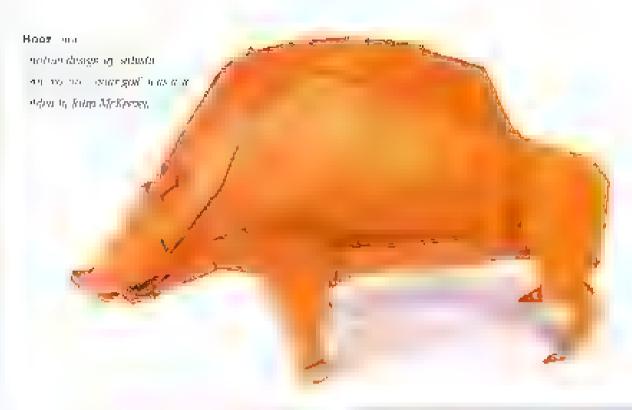


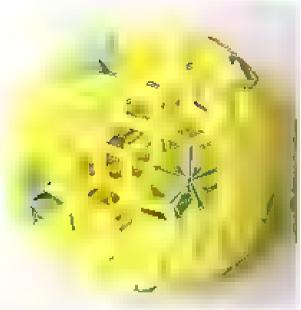
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Ball no me

the sample of knowledge. German term Show has a some passion for limiting processes long seminal upo





Heari nove

Flors retainedly sample design to Tang Kest with the little given life and annuation of folder Netth Leonard.





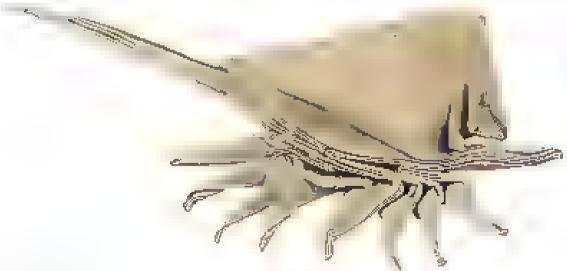


Forigraphics
impoints paper arisis Magnet La resse designed
and folder this treatment conduct. He even made the
stated of pager with subschipt folds.

Vesk num

e design for Miric Robinson, exploring a websitous unred war finding, which allows for our edercoses to be made



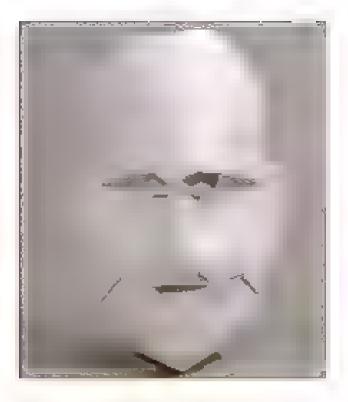


Timed Light

Impossable (leough a mande, that ingripe been made — a salge theel of paper by Fredraman a mean. Frederic using some magnet monding to heliques to mashrelapes

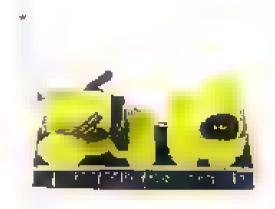
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Anbert Long of America designed and foliaed dats uself your of a folia waters, series to has moste



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Anoth, mask fram th Kolunson that as exmens the nearn line to take, sear trough the nech, it of tape



Fire Form of W

Buy form neva, an from they destructed.

Rocket m

debition of the types by any flats, that evaluated found or course up to entire updeto troudent 2 some 65 or long



Resources

is a voil 've rolited reast or even all of the designs this across you'll probable be bitsess by the or gains bug. So what shows you do next? The voor rotal house, who often have several organic books to stock. Fold everything you have generated by the recepted observe who magnified or diagrams, the to find other people nearby who might energy folding.

Four all absences about origamit you should plus all original bodiety it doesn even have to be a locations some people pure severally have been a member of the British Drigant, homely for the last venty years and through they are paper folders from their of the world Amosa without exception they have been applied projet anself shand happy to share their skills and kentureds; with the thought of cost. Unlike many

wither origin has revenient crossed one autothe commercial would and the fill many paper folders in any one form. For me, this is a donate, since their rate of a situal but close family Them are socienes all arrespective would make worth exhibiting magazines you can subscribe in. From test you ill never be short of new ideas and things to folk. Many also hold organize conventions where highest auto around the world gatherto spend a long weekend to meetsed in paper frigury.

As yet as thousands of ongain, shighere you can boo datally of the BCS one other at gain a subject of the BCS one other at good should be at a some good happy to start

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Biography

Nick Robinson has been foliage papersince are early 1980s are manufeen a member of the books? Organic Society For Pulyeers. He has served on their outstill or over 10 resize or intersectivities here bi-monthly magazine and manufacts their website.

Nick spent four years as a professional origanal tracher, travelling round set of is. Thranes, youth dobs, itospitals and all gallenes, teaching origans and paper artwork. He ran sessions with people shall ages are physical abilities. His studen secunded both its bally and reading impaired the arrival or two children obtgets him, to seek more convenithing entitingment as as "If recauser, web designed and suchor

He has appeared frequently on television in Brians and Germany and has the homeons entrapseasans for magazine television and interact advertising adaption. Over 100 of his higher and large the restrict as have near publisher in 3 countries around the world, including a lapanese newspaper. He has submitted work to many pres ligious exhibitions around the world 1994 he won three of the five categories for the marriadonal Alice in Wonderland.

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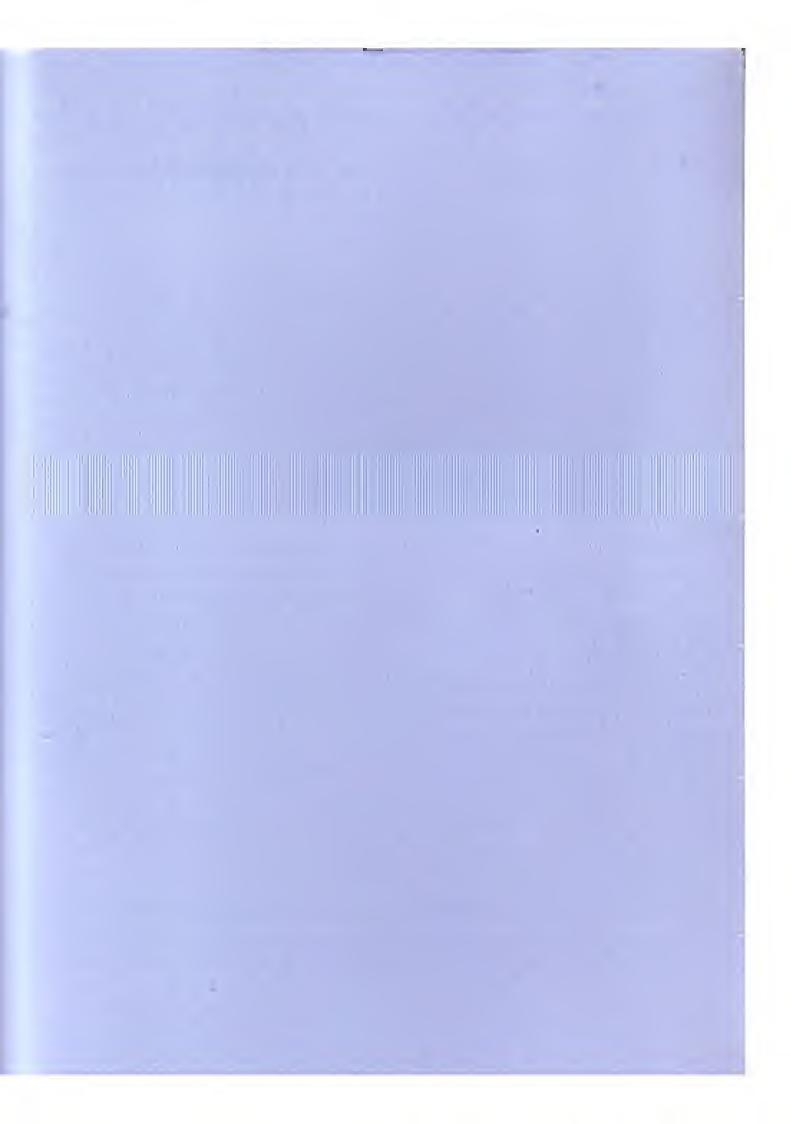
raiga of books, with rotal woll divide sales approaching rate a million. Alck lives in Sheffeld nigland, with wife laster children Datay and Airis, rate lattice and Viatuda plus grakes. Big Dave and Bub As a former professional resident as all performs life most sole approximed another guita:

Acknowledgments

i wonlo like to thank the autowag, Alison, Daisy Birk of Ciria, and Gamez Robinson for their understanding and whole-hearted support when was "off on that computer again. If it wasn't for sherr the mortgage and the car. I wouldn't bave the intentive to write masterpienes like this Ne-សាមែនការ សមារជន តាម ១៤ ការក្រោមលេខ លេខការប្រហ. ១៤ cavid caren Dage find that look man thin, Edward Corrie Nun: Kasahara Merk Robinson, proofresidence control came. Proports Dvc. Buls Neste. Philip Shen, Mark Kennedy, Gay, Gross, and the Haze: Grove minomorting, row have atsupporthuger in some way or his hook, whether they respige mgg get, was thanks to everyone at fiolities & Brown for their work art the project T arais: also mendor: are susingebrews. Mich. 101/6. and one, mass payde wead and payled form for providing the southwaters to this book. Other visc. parknet is included paper by Japason town teams.

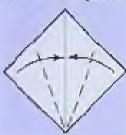
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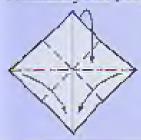
Common bases used

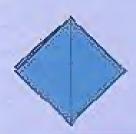
Kite base (see p. 26)



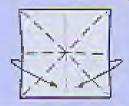


Preliminary base (see p. 30)





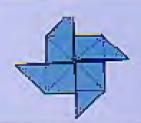
Waterbomb base (see p. 30)



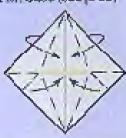


Multiform base (see p. 33)



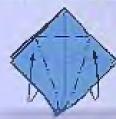


Fish base (see p. 28)





Bird base (see p. 32)







All you need to know

On these fold out flaps you will find the key origam! symbols. These are an international language used in origam! books around the world. The symbols form the basis of the folding instructions in this book. With time and a little practice you will start to recognize and remember the symbols without always having to refer to these fold-out flaps.

Nick Robinson has been folding paper since the early 1980s. As a professional origami teacher for four years, he has traveled widely and won awards for his original origami creations. Nick has made numerous appearances on television and has seen his designs featured in magazines and newspapers worldwide. Nick has been a member of the British Origami Society for over 20 years. He is currently the editor of their magazine and also runs their website.





CRAFTS/CIBIGAMI



Nick Robin

tems, such as CD cases, envelopes and wallets, as well as stimulating new designs, such as animals, flowers and unique modular forms that can be used as decorative pieces around the home. From choosing the right paper to understanding the symbols, from simple 4-crease designs to demanding 180-degree epics, this book will make an invaluable reference work for all folders, from complete beginners to intermediate or advanced artists.

- Nick Robinson's expertise and knowledge will guide folders of all levels
- Unique format with flip-out back flaps containing a key to the symbols
- Includes a world history of this ancient art form by an acknowledged authority

